

Take a moment to wonder why, we can offer you a 3 year warranty ...



FTDX9000D

The ultimate all options installed version of "The Radio" 200W HF-6m All-mode transceiver.

Large TFT display including world & greyline maps, logbook, time, rotator and great circle direction features. World's first ever Cannon (XLR) Professional Microphone Connector 64MB compact flash card

.it's because nobody makes 'em like Yaesu.

Our high quality radios are extremely tough and reliable. But if something should go wrong you'll have piece of mind with support from our Australian lab headed by a factory trained technician direct from Japan with 20 years of experience.



Strong 5w output

new generation dual band hand-held Emergency Automatic ID System that causes the

FT-60 to transmit your callsign and engage the radio's microphone, even if you are disabled 1000 Memory Channels with 10 Memory Banks. Receive coverage from 108-999MHz AM/FM. Automatic Range Transponder System. RF Squelch System with menu option.

\$376**

\$1,424



Tri-Band (50/144/430MHz), Dual Receive, Continuous receive coverage from 500kHz to 999MHz in AM/FM/WFM. 450 main memory channels, 40 band-limit, 12 home and 10 hyper memories all with Alpha-Numeric tagging. Two channel Dual Watch with 5 second polling. Unmatched water ingress protection.

\$695





HF/VHF/UHF multimode portable/base station; Dual power supply or battery tray

gives you the flexibility to go anywhere.

High Stability TXCO for a stable frequency.

High performance PLL design for fast lock

times and smooth tuning in 10Hz steps.

Custom assignment of functions to dials

Multi-colour data variable backlight modes.

200 memory channels in 10 groups.



processing for both transmit and receive. 4 position microphone equalizer lets you tailor your sound. Detachable head for easy installation and security. Optional ATAS-120 active tuning antenna system that's fully retractable! Optional DTMF microphone.

32 colour data variable backlight modes.



Hyper memory feature for preset actions. Dual receive; Talk on one band, listen to another. Cross band repeat; Turn your car into a mobile repeater station VFO tracking for satellite operation. WiRES™ internet linking for global communication.



YAESU Premium Amateur Radios



Amateur January/February 20 The Journal of the Wireless Radio

21st Australian Scout Jamboree ...

Volume 75, Numbers 1 & 2 January/February 2007

Institute of Australia

E	d	i	t	o	Т	t	а	ı

Editor:	Peter Freeman	VK3KAI				
	editor-armag@wia.org.au					
Technical I	Editor: Peter Gibson	VK3AZL				
Publication	ns Committee Members Brenda Edmonds	VK3KT				

Evan Jarman VKSANI Tom Potter VK3UBS Bill Roper VK3BR Ernie Walls VK3FM

Nathaniel,

Jamboree.

on page 11.

VK3FNAT, at the

21st Australian

All circulation matters nationaloffice@wia.org.au

How to submit material General and Technical articles Secretary AR Publications Committee

PO Box 2175 Caulfield Junction Vic 3161 or armag@wia.org.au

Columns and letters to Editor Editor AR Magazine

PO Box 273 Churchill Vic 3842 or editor-armag@wia.org.au

Hamads "Hamads" Newsletters Unlimited PO Box 431

Monbulk VIC 3793 Fax 03 9756 7031 newunltd@bigpond.net.au

All enquiries to Newsletters Unlimited PO Box 431 Monbulk Vic 3793 Phone: 03 9756 7797 Fax: 03 9756 7031 newunltd@bigpond.net.au

Advertising

Registered Office 10/229 Balaclava Road Caulfield North VIC 3161 Australia

Phone: 03 9528 5962 Fax: 03 9523 8191 **Production Deadlines**

> General articles, columns and advertising booking 10th day of previous month.

Hamads and advertising material 15th day of previous month The contents of Amateur Radio are Copyright Wireless Institute of Australia € 2007

ert	Broom	nheac	I VK3F	(RB
eur	Radio	2006	Index	

Rot Amate TECHNICAL

GENERAL

Felix Scerri VK4FUQ. A 50 ohm, 200 W dummy load/power meter Drew Diamond VK3XU

COLUMNS

AMSAT	14	VK2	2
Awards	16	VK3	2
ALARA		VK6	3
Cover story		VK5	3
Editorial Comment		Contests	
Directory		Spotlight on SWLing	
DX - News & Views		The WIA QSL Collection	
Hamads	54	VHF/UHF – an expanding wor	ld 4

Note Icom and Wyong.

Outside Back Cover advertisement. There has been a late change of arrangement and the donated door prize will now become a raffle prize instead.

Our Cover this month



Photo:

News from.....24

Robert Broomhead

Contributions to Amateur Radio Continuitions to Amatélir Hadio
Amateur Radio is a forum for Vida members' amacurmanuscripts with drawings and/or photos are always
welcome and will be considered for publication.
Articles on disc or email are especially welcome. The
material is a parabet. They or burning for a
material is a parabet. They or burning for Amateur Radio
is available from the National Office on receipt of a
samped self-addressed envelope.

Back Issues Back issues are available directly from the WIA National Office (until stocks are exhausted), at \$4.00 each (including postage within Australia) to members. Photostat copies

WIA comment......3

WIA news.....

When back issues are no longer available, photocopies of articles are available to members at \$2.50 each (plus an extra \$2 for each additional issue in which the article appears).

Disclaimer The opinions expressed in this publication do n necessarily reflect the official view of the WIA and the WIA cannot be held responsible for incorrect information published.

Amateur Radio Service A radiocommunication service for the purpose of self-

A radiocommunication and technical investigation training, intercommunication and technical investigation carried out by amateurs; that is, by duly authorised persons interested in radio technique solely with a personal alm and without psecuriary interest.

Wireless Institute of Australia The world's first and oldest National Radio Society Founded 1910

Representing
The Australian Amateur Radio Service

Member of the International Amateur Radio Unio

Registered Office of the WIA 10/229 Balaclava Road, Caulfield North Vic 3161 Tel: (03) 9528 5962 Fax (03) 9523 8191 email: nationaloffice@wia.org.au

http://www.wia.org.au

PO Box 2175 Caulfield Junction VIC 3161 Business hours: 10am – 4pm weekdays National Office staff

Margaret Williams Administration Officer
Dianne Ashton Examination Officer
Brenda Edmonds Office Volunteer

President Michael Owen Vice-President Robert Broomhead VK3KI Robert Broomhead Glenn Dunstan Trevor Quick Robyn Edwards VK3KRE Robyn Edwards VK3KRE

John Moyle Memorial Fleid Day Denis Johnstone VK3ZUX Editor 'AR' Peter Freeman VK3KAI EMC/EMR Gilbert Hughes VK1GH Keith Malcolm VK1ZKM Standards Gilbert Hughes VK1GH David Wardlaw VK3ADW John Bishop VK27OL NTAC John Martin VK3KWA

Historian Will McGhie VKGUU.
IARU Region 3
Liaison Michael Owen VK3KI
Intruder Watch Glenn Dunstan VK4DU

User VK3ADW
Keith Malcolm VK1ZKM
QSL Curator Ken Matchett VK3TL
QSL Bureau & VK9/0
QSL Manager Neil Penfold VK6NE

QSL Manager Neil Penfold VK6NE
Repeater Peter Mill VK3ZPP
Webpage Colin Thompson VK2TRC
WICEN Fwan Mel end VK4FRM

2

Editorial Comment

Peter Freeman VK3KA

Here we are at the start of a new year. I trust that you all enjoyed the festive season, Personally, all went well, I spent several day; engaged in family activities, which tends to happen at that time of the year. The down side - the radio gear was predominantly in the OFF state and it appears that I missed lots of Es propagation events on the six and two metre bands! I am sure that David Smith VK3HZ and his team will have coverage in the VHF/UHF column. I was lucky enough to come home early from work one day last week to find that two metres was open to VK4, resulting in seven contacts. Now that the "silly season" is behind us, we need to think of other activities and tasks

AJ2007

Early January saw significant exposure of amateur radio to an almost captive audience of over 10,000 young Australians, For almost 2 weeks, amateur radio was one of the on-site activities at the Australian Jamboree 2007 held at Elmore. See our cover story, which outlines the VI3JAM station and reports on the ARISS contact with the International Space Station. The ARISS contact sounded great, even though I could only hear the signal from the ISS whilst monitoring the downlink frequency from Churchill. Two neighbours that I invited into the radio shack to listen certainly found it fascinating.

Weather and its

consequences

Much of Australia has been experiencing low rainfall for an extended period - at least six years here in the Latrobe Valley in south-eastern Victoria. As a consequence, much of the country is very dry. Combine that fact with high wind days, some thunderstorms and the undesirable activities from some people with anti-social attitudes and the inevitable occurs - bush fires. Here in Gippsland, the fires started in early December. They are still burning as I write this report, in the middle of January. Fortunately, most of the fires have been in the "bush", with little impact on private property. Some houses were lost and one person died after falling from a trailer whilst in motion.

There have been fires in other areas as well – I trust that few individuals have been impacted directly. Here, we have had many days with the air filled with smoke, making life uncomfortable and physical activity outside inadvisable, due to the high concentration of smoke particles.

Throughout much of the period, WICEN in Victoria has been on "standby", although mainly unofficially. There have been official periods of standby status and activations. A dedicated band from RECOM — a group of trained amateurs who are also members of Red Cross — have been active in maintaining the flow of information regarding the movement of displaced people and providing back up communications to the Red Cross Emergency Relief Headquarters."

Official WICEN members are usually in a good state of readiness, can you say the same? If a major event occurs, the normal communications channels rapidly become stressed by the increased usage. This will often result in an activation of WICEN. With very large events. additional volunteers may be required. Are you prepared? One way of checking your preparedness is to participate in one of the Field Day contests. As I write, the Summer VHF/UHF Field Day is less than a day away. By the time you read this comment, it will be well gone and the logs submitted. Your next chance will be the John Moyle Memorial Field Day Contest. The rules are listed elsewhere in this issue and are also available on the WIA website. With both six hour and 24 hour sections, you do not need to commit the entire weekend. Please participate, even if only as a home station. Remember to send in your log - give Denis VK3ZUX/VK4AIG some more work as Contest Manager!

As has been the practice for several years, the January and February issues have been combined. We will be back to our regular monthly schedule from the next issue.

With lots of content and the Annual Index, I must apologise for not including the VK7 and Moonta ARC news items. These should appear next month, when more space should be available.

Cheers, Peter VK3KAI

WIA comment

Michael Owen VK3K

What is amateur radio?

The WIA started the year 2006 with 3,675 members and by the end of 2006, there were 4,113 members of the WIA.

This represents a 12% increase in the year, reversing the annual drop of around 5%, which until a couple of years ago had almost become accepted as inevitable, with what many considered to be a dying hobby.

That increase is very important, because the WIA can either grow or shrink. It cannot just stand still. If it shrinks, it cannot afford to offer members more services, rather it may have to restrict what it does offer and so being a member is less attractive.

is less attractive.
The total cost of the basic administration of an organisation of 4,000 members is not that much different from the total cost of the basic administration of an organisation of 5,000 members. As an organisation of 5,000 members. As an organisation of 5,000 members. As an organisation grows, so it can afford to provide better services for its members, and importantly for the longer-term security of the organisation, ultimately employ a qualified and experienced manager. As the organisation grows, so it should become more attractive to be a member, and so it should continue to grow.

Of course, there may be a number of reasons for the current increase in WIA membership, including at least 1,000 new amateurs in the period, thanks to the Foundation licence, a better image of the organisation, perhaps avoiding conflicts and what is so often called "Politics", perhaps better marketing, perhaps better reacquition of what the WIA does to represent amateur as the advocate WIA does to represent amateurs as the advocate of amateur, perhaps an organisation that is seen as vital for the qualification of amateur, perhaps an organisation that is seen as being more open, perhaps all of the foregoing.

I am sure that a major contribution to the increasing membership is the fact that the number of amateurs is increasing. But how do we attract new amateurs?

Or, at least, generate a better awareness as to what amateur radio can be? One of the things I have repeatedly been told when I have visited clubs is the need for a new attractive brochure. to promote not just the WIA, but amateur radio generally.

We have now produced such a brochure, and we are enclosing a copy with each mailed copy of this month's AR.

It represents a lot of time and a lot of effort. Many people have contributed to the concept and we have had the assistance of a professional design company. It attempts to identify amateur radio in association with a whole range of activities. We have attempted to make it socially relevant.

I do hope you like the new brochure, and even more importantly, you will be able to make use of it.

We will also be sending a number of copies to each affiliated club, and we will be able to provide further copies for particular events.

To produce such a brochure costs money. We believe that in today's world of sophisticated marketing and eye grabbing competition, we have to produce high quality brochures and other materials (such as the Foundation Licence Manual) to be effective.

We want to grab attention, and to encourage the reader to seek more information.

When I first started writing this "Comment" I assumed, in a very nonanalytical way, that how best to use the brochure as a tool was obvious. But then I started thinking about that, mainly because I had a couple of hours with Robert Broomhead, who with Phill Wait, were the two Directors behind this project.

It is interesting, isn't it?

How we can best use the brochure depends, I suspect, on two major factors – where you are and what you identify as the best opportunities.

It may be placed on the community notice board in the local supermarket, perhaps it may be available in the local library, or at the local high school, perhaps it may be useful at a local Rotary or Lions or similar meeting, it may be at a display, or (as I found only yesterday at the 21st Scout Jamboree at Elmore as they made contact through amateur radio with the International Space Station) at a major Scouting event.

The more I thought about it, the more apparent it became that how a marketing tool is best used may be quite different in each capital city, but even more different outside the cities and in remote parts of Australia.

That is why I really do hope we receive feedback from individuals and clubs, identifying the best means of using the brochures in the environments they

It is also why I see the role of the clubs as vital, just as vital as they are in the whole education program.

Iknow that many clubs conduct amateur radio displays at shopping centres, festivals or at other special events. Some operate special event stations at museums and the like, and some are involved in the Scouting movement and in setting up displays for Scout groups and the like. We hope that at all these events those conducting them will be assisted by an anomoraise brochure.

But at the same time it doesn't make sense to have a whole bunch of brochures sitting in a box in a clubroom doing nothing or overflowing in brochure stands but not being read. That is why we have decided to send them in appropriate quantities for a particular event.

And of course we want feedback, so that we know how they are working.

The WIA is asking its members and clubs to share with us their comments on the brochure, how they have used them and on their effectiveness in delivering the message.

The WIA Board hopes that we have produced a useful tool, which at least goes some of the way to answer the question that is the title of this "Comment".

In the end, the objective is simple: let's work together to make amateur radio grow and the WIA better and stronger.

ar

WIA news

Late delivery of AR in

December

Some members did not receive their December 2006 issue of Amateur Radio until after Christmas.

It appears that Australia Post gave priority to Christmas mail, and unfortunately this was the result.

If you still have not received your December issue by the time you receive this issue, please let the office know and you will be sent a replacement copy.

The WIA responds to Discussion Paper

On 13 November 2006, ACMA published on its website a discussion paper by their commissioned private consultants, Spectrum Wise Radiocommunications Consultants, reviewing government spectrum holdings. It sought comments by 31 December 2006.

The amateur service must have an interest in this review because of the existing spectrum sharing arrangements with government bodies through "secondary user" status recognised in the Australian Radiocommunications Spectrum Plan. The main "primary user" is the Department of Defence. These bands are most of the bands between 420 MHz and 24250 MHz.

WIA President Michael Owen VK3KI appointed a group of experts to advise the Board on the issues raised by the Discussion Paper and, if thought appropriate, prepare a submission.

The group consisted of Peter Young VK3MV, licensed since 1965, with a background as a maritime communications engineer and former ACA/ACMA Regional Manager, Peter was the first Manager, BPL project team, for ACMA; Keith Malcolm VK1ZKM, who has been a licensed amateur since 1967 and is the retired manager of former Department of Communications, IT and the Arts Communications Laboratory, with extensive experience of ITU-R Study Group and WRC meetings, and the WIA's nominated member of the Australian delegation to WRC-07; and John Martin VK3KM, a licensed amateur since 1967 and Chairman of the WIA Technical Advisory Committee.

Peter acted as chair and WIA Secretary Ken FullerVK4KF acted as coordinator and rapporteur to the group. The group recommended to the Board that the WIA make a submission, which they had drafted. The WIA Board accepted the recommendation, and just before Christmas, it was lodged with the Consultants. Acopy of the submission has been placed on the WIA website.

In releasing the WIA's response, the President said that the WIA Board acknowledges with gratitude the valuable work of this group, whose expertise and knowledge must be very hard to equal.

The 2007 John Moyle Memorial Contest

WIA Director, Trevor Quick VK5ATQ released the following statement in early January:

If you think you are ready for providing communication assistance at any time then give it a try. You will be surprised at all the things that can go wrong, or right if you plan well. A great way is to combine your trial with a contest. The most appropriate is the John Movle.

most appropriate is the John Moyle. The aim is to encourage portable operation, and provide training for emergency situations. The rules are therefore designed to encourage field operation. The contest takes place on the 'ard full weekend in March and runs from 0100 UTC Saturday to 0059 UTC Sunday, 17-18 March 2007.

This is your chance for a time away from home, to play radios, and test your skills. You will meet a lot of fellow amateurs as well. Enter either the 6-hour or the 24-hour section. Designed for you to enjoy, so send your logs to Denis Johnstone VK4AIG/VK3ZUX and make sure he has plenty to do as Contest Manager.

Details and the official 2007 rules can be found on the WIA website.

ISS contacts Australian Jamboree On Sunday 7 January 2007, at about 2115

On Sunday / January 2007, at about 2115 local time, Sun i Williams KD5PLB on board the International Space Station made contact through Bill Lynd WX4KHZ via the Telebridge with the station established by the Scout Radio and Electronics Unit (Victoria) at the 21st Australian Jambree at Elmore, north central Victoria.

20 Scouts who had won a competition for submitting the best questions were lined up and ready to ask their questions during the 10 minutes the space station was in range.

The contact was repeated on the Jamboree FM station, and is available on the WIA website. In addition, several hundred people at the Jamboree were listening to the almost perfect signals.

The contact had been organised by the Australian ARISS coordinator, Tony Hutchison VK5ZAI, with NASA.

The amateur radio activities at this

The amateur radio activities at this Jamboree of over 11,000 Scouts had been supported by ICOM, the Wireless Institute of Australia and Amateur Radio Victoria, and were a great success, with many Scouts now seeking to get their Foundation licences.

ARRL takes the FCC to court over BPL rule

The ARRL, the national society of radio amateurs in the USA, has filed a Petition for Review in the United States District of Colombia Circuit, seeking a review of the Federal Communications Commission's (FCC) recently adopted rule that exempts PL, operators from having to do anything to correct interference to mobile operations other than to notch emissions to a level 20dB (below 30 MHz) or 10 dB (above 30 MHz) below the absolute limits specified elsewhere in the rules.

The FCC is the regulator of nongovernment spectrum in the US. Essentially, the ARRL (supported by

two other parties intervening) is saying that the FCC has ignored certain facts that it should have taken into account in formulating its rules.

If the ARRL succeeds, the Court will

order the FCC to reconsider its decision taking into account the facts that it previously failed to take into account.

The Court will not substitute its judgement for that of the expert agency, nor will the decision deal with more than this rule affecting mobile operations.

This sort of legal challenge is very expensive, no doubt the ARRL Board has acted very carefully, but are convinced that a successful outcome will influence the FCC to act in the future having better regard to its legal obligations.

Unfortunately, because of the very narrow issues of fact involved and the very specialised nature of administrative law, the US case cannot be seen as a model for Australia.

The magical (noise cancelling) properties of Delta Loops

Felix Scerri VK4FUQ
Yes, I know we're all concerned about BPL but, as I recently remarked to someone, 'BPL, that's nothing, I've

got severe power line noise!' Blessed (cursed?) with aerial power lines in my location, power line noise 'hash' has been a very long time problem at this CTH slines at least the mid 1980s, when I was first licensed!. By its very nature, it is dependent upon general weather conditions and, as such, can be highly variable in its appearance and intensity. It is often so severe that interference is evident on the VHF FM broadcast band and UHF relevision channels, not to mention the HF bands!

Speaking of the HF bands, trying to read any station through an S9 noise level is a painful and demoralising experience, let me assure you! Noise blankers have very little useful effect, and DSP units are marginally useful, but not a cure. Particular antenna configurations can be useful, but nothing really solves the problem to any great extent.

However, perhaps now I have at least cured the problem as much as it ever likely to be! In some ways I have been revisiting the past, as the solution involves the use of an antenna type that I was heavily involved with, particularly on Dn, when I first became licensed in the late 1980s, "The One Wavelength Delta Loop!. In those days, when I had several pipe masts available to me (sadly, no longer the case), a favourite configuration of mine was the 'inverted' Delta Loop supported between two pipe masts.

Apart from the general excellence of that antenna, as a result of several experiments. I had noted at the time that general power line noise hash pickup could be minimised by a specific feedpoint position along the loop. As the loop runs through both horizontal and vertical planes (when mounted 'vertically'), it is easy to vary the general polarisation of the antenna through feed-point position. Due to changed circumstances, it has been many years since I've been able to erect a Delta Loop antenna, However, spurred on by this maddening power line noise hash, I decided to give it another go, at least on the 20 m band.

Having only one 10 metre pipe mast available, I erected a Delta Loop antenna as a triangle, with the apex up. It was initially fed (with balanced feeders at 'uned line'), in the middle of the lower horizontal section. Sadly, no real reduction in power line pickup was noted, compared to my standard inverted V antenna. Next. I tried feeding it at one of the corners along the bottom horizontal section. The result was a very marginal improvement but not significant. I was a tready to give up on the loop, but there was one more position to try – feeding it at the top. It was at this point that I was glad I use pulleys on the mast, something that makes raising and lowering and antenna with the feed-point at the top and pulled the loop into shape. I would be a supported to the contract of the contrac

I went upstarrs and switched the transceiver on. The noise level on receive, previously around \$7, now was only \$1.2. A remarkable reduction in noise pick up. To be sure, I looked out the window to check if the antenna was still up. It was! This was clearly the optimum feed-point position for minimal noise pickup.

One of my antenna texts tells me that the antenna polarisation in this case should he 'mixed' containing both horizontal and vertical components. Whatever the reason, it works just fine. It would be interesting to find out if the Delta Loop is actually preferable to a traditional Ouad Loop owing to this 'mixed' polarisation profile. It is indeed a pleasure to be able to hear signals normally hidden beneath the power line noise. The power line noise is still there, even on the Delta Loop, but at least now it's at a tolerable level. The reason for this improvement is probably complex but, without a doubt, being able to tweak the overall antenna polarisation is the key; and as I already knew, the Delta Loop is a pretty good antenna overall!

It would be nice to see if this noise reduction can be further enhanced. However, my personal feeling is that individual noise problems are likely to be unique and, as such, will need to be customised for best results. Certainly, carefully optimising the feedpoint position on my 20 m Delta Loop has effected a great reduction in power line noise hash pickup at this location on that band.

It is interesting to note that, before I decided to erect the Delta Loop, I had tried different 'orientations' with my standard invented Vantenan. No reduction in noise pickup was noted during those tests. Sadly, it would appear that 20 m is the only band where I can take advantage of this approach, given space and other practical considerations. Having said that, if you are plagued with severe power line hash interference and/or other noise problems, and are able to erect a full wave Delta Loop, then this approach is worth tryine.

It has been nice to re-establish my earlier love affair with the Delta Loop antenna, even though this latest investigation has been prompted by a strong desire to ameliorate the effects of severe power line hash interference. I had initially thought that the 'triangle' form of the Delta Loop I ultimately used would suffer from a hig reduction in 'effective' height compared to other loop configurations or simple dipoles. But, at least on 20 m, I've noticed absolutely no performance deterioration compared to my usual 20 m inverted V with a top height of 10 metres. I suspect that 'top' feeding actually helps matters here as well.

In fact, using the Delta Loop for an extended period has made me realise that there is something special about the Delta Loop antenna overall. Those who've also extensively used full wave loops in their various forms, either singly, or as a parasitic array, will probably know what I mean. Anyway, I'm very happy with mine. It's an easy antenna to erect, works very well and, best of all, with a little 'feedpoint position optimisation', is a very quiet antenna 'on receive.

Incidentally, the Delta Loop data is as follows: length formula 1 (ft) = 1005/ frequency. Each side length is 1/3rd of the formula length (equilateral triangle).

A 50 ohm, 200 W dummy load/power meter

Drew Diamond VK3XU

When extended tests are performed on transmitting amplifiers, it is preferable that the transmitter's output power be absorbed in a non-radiating "dummy load" of appropriate impedance, for which a purely resistive element of (usually) 50 ohms is required.

Ordinary wire-wound resistors - the usual method of obtaining higher power dissipation - have far too much self-inductance for radio frequency work. Non-inductive high-power metal-film resistors are available in some values, but supply is usually difficult and costly.

Experimenters have had some success in using arrays of high value carbon, or metal-film resistors, each of perhaps 2 W or 3 W rated dissipation. The usual execution comprises two discs of brass or circuit board, with resistors of appropriate number and value, all connected in parallel and spaced around the perimeter of the discs to provide the necessary terminating load resistance (Reference 1). However, two discs, or rectangles, with sufficient area to contain 200 W worth of resistors has significant capacitance (typically 4 pF), so the SWR of such an arrangement may be unacceptable at higher frequencies.

Offered here is a load that uses an alternative method of housing an array of 94 ordinary, 4.7 kΩ, 2 W carbon resistors to provide a low SWR, convection-cooled 50 ohm load capable of absorbing 200 W continuously, or 400 W at 50 % duty cycle. SWR of the prototype is less than 1.2 from DC to 28 MHz. Metering of the RF load current is provided, thus permitting direct estimation of dissipated power. Being a peak responding meter, PEP readings of reasonable accuracy are obtained. In addition, a -40 dB signal sample port is fitted to allow for the convenient connection of other instruments, such as an oscilloscope, frequency counter or spectrum analyser.

Circuit

See Figure 1. 94 x 4700 ohm resistors are spaced along a 260 mm length of transmission line, comprising a 5 mm (5/16th inch) brass rod "inner" conductor positioned centrally between circuit board strips, which form the "outer" of the line.



Photo 1 - The 200 W dummy load.

as shown in Photos 2 and 3. Unwanted stray inductance and capacitance is thus kent to a minimum

Current transformer T1 has a turns ratio of 40:1, so the current through the 470 Ω metal-film terminating resistor will be 1/40th of that in the line (References 2 and 3). Therefore, for a 50 ohm load current of 1 A, current in the 470 ohm is 25 mA, thus establishing a voltage of 11.75 V. When applied to a single diode detector, a voltage very near 1.3 times the RMS will be available at the 100 nF filter capacitor for metering. Therefore, we get 1.3 x 11.75 = 15.275 rounded to 15.3 V de.

The 0-50 scale of an ordinary $50 \mu A$ meter suits our measuring range of 0-5 ARF. For the above example, where 1 A RF is flowing (which shall read 10 µA on the meter), and 15.3 V de is produced, then the series multiplier resistance must be 15.3 divided by .00001 = 1.53 Megohm. In practice a standard 1.5 M resistor gives a sufficiently accurate result.

The ammeter circuit is utterly replicable (i.e. iterations of the circuit give predictable results), so the current meter, if duplicated closely, does not need individual calibration. Thus, power delivered to the load may be estimated:

P = I² x R (Watts) so when the load is 50 ohms

so when the load is 50 ohms $P = I^2 \times 50$ (Watts)

For example: 1 A in 50 ohms = 50 W, 2 A = 200 W, and so on. The two right-hand 4.7 k, and two 100

ohm resistors form a -40 dB pi attenuator

Amateur Badio January/February 2007

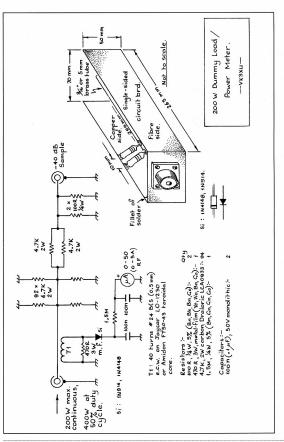


Figure 1 - Schematic of the dummy load/power meter.



Photo 2 - The resistor assembly.

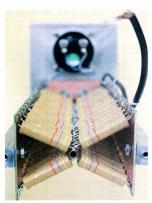


Photo 3 - End view of the resistor assembly

which, when connected to an instrument whose input impedance is 50 ohms (or "terminated" right at an instrument's high impedance input with a 50 ohm thru termination), provides an exact replica signal whose voltage will be 1/100th that of the input signal — a very handy feature.

Construction

A suggested method of housing the load is shown in Photo 2, where the resistor assembly is a snug fit between two parallel 12 mm square aluminium rods. Front and back panels, made from 3 mm aluminium sheet. are attached with 4 mm countersunk screws. which engage in threaded holes in each end of the support rods. The mounting flange of

the SO-239 coax socket is sandwiched between the front panel and the resistor assembly.

The resistor assembly end-view is pictured in Photo 3, which illustrates how the individual resistors should be arranged. Note the additional support given by fitting 3 mm countersunk screws and nuts near the rear end of the resistor assembly. Top and bottom covers were fabricated from 1.3 mm perforated aluminium sheet, obtained from a local metal recycler.

When building the resistor assembly, begin by making the circuit board sides and pre-drilled connector end, dimensioned as shown in Figure 1. Use a flat reference device, such as a mirror, as an aid to soldering the sides straight and parallel. Test for rightness upon the mirror with an engineer's square. Apply small "tacks" of solder first, and then form a fillet when correctly aligned.

Temporarily mount the SO-239 socket. Remember to install the current transformer at the connector end before soldering. For the layera toroid, you will need an insulated spacer to hold the core upon the tube. Photo 4 shows a suggested method, where a short length of RG-8 inner insulation has been bored out to 5 mm, then slipped over the tube upon which the wound core is a snug fit.

Solder the brass tube (obtainable from model shops) to the coax socket centre pin. Use a wood block, or similar object, at the far (rear) end to correctly position the tube prior to soldering. A small hole, or filled slot in the connector end of the tube, will considerably ad in getting the solder to flow where required for a good connection.

Begin soldering the resistors at the far and of the assembly, spaced by 10 mm in each row. Mark with pencil down the fibre of one of the sides, thus giving a guide to their spacing. By alternating each resistor side to side, top to bottom, we accommodate all 94 without difficulty, and allow space at the connector end for the current transformer.

The last two resistors are connected two parallel 100 ohm short lead resistors for the -40 dB output. If this feature is not required, simply solder all 94, 4.7 kB resistors to the circuit board foil. A short run of RG-58 coax, wired as shown, may be used to connect the attenuator to a suitably different (suggest BNC-f) connector fitted to the rear panel.

Australian Enterprise Industrial. ABN 21 585 743 778

"HOME of the ONE MAN TOWER" http://www.spin.net.au/~aeitower/index

Australian designed and manufactured. In production for more than 20 years and exported all over the World.

Offering the Worlds strongest, safest and most versatile small footprint, free standing, communications tower.

Raise and lower your array safely and easily for adjustment WITH BOTH FEET ON THE GROUND!





No other tower offers the features or the strength of the "One Man Tower".

Mini towers 7.5 m (Mini7.5) – 10m (Mini10)

Midi towers 10m (Midi 10) – 12.5m (Midi12.5)

Maxi towers 10m (OMT10) – 12.5m (OMT12.5) 15m – (OMT15)

Maxi towers are also available in Deluxe version with DC motorised winch.

All towers fully hot dip galvanised after manufacture to ensure long lasting protection from the elements.

(Trailer mounted models available on special order.)

AEI also carries the fantastic "OzSpid" rotators.

RAK – medium/heavy duty Azimuth and RAEL – medium/heavy duty Elevation.

The utilisation of the two separate units gives the user a far more versatile option by allowing the installation of a 6m and or HF antenna under the elevation array and take full advantage of the Azimuth rotator.

In addition. We also offer a very competitively priced Australian made 5:1 braking winch. (it is not only stupid to lift with an ordinary boat winch – it is illegal)

And. We now manufacture a range of Delta Loop, Quad and Yagi antennae.

Contact. Kev. VK4KKD P.O. Box 1013 Browns Plains. 4118 Old. Australia

Mob. Ph. 0414 254 080

email: aeitower@spin.net.au



Operation

The load can dissipate 200 W continuously if properly ventilated. For higher power (above 2 A), use a proportionately shorter duty cycle. To estimate CW or PEP power, simply square the current reading and multiply that by 50.

Parts

The Draloric 4.7 kΩ, 2 W resistors were purchased from Rockby Electronics (Ph 03 9562 8559). Minimum order is a box of 250 resistors at 2 cents each, P/N 19782 - total \$5 plus post (I suggest building one with a manual to the contension of the c

, , ,

meter will serve - mine is a QP-5012 from Jaycar.

Toroidal core for T1 may be an LO-1230 (pack of six for about \$2 from Jaycar), or an Amidon FT50-43 (see Hamads for your local supplier). A suitable length of 3/16" (5mm) tube,

described as "K & S Engineering 3/16 round brass, stock # 129" - was purchased for a few dollars at a local model shop. The remaining electronic parts

are obtainable from any of the usual component suppliers, including Altronics, Jaycar, DSE and Electronic World.

References and Further Reading

- VHF/UHF Handbook; Edited by Dick Biddulph, G8DPS, 1998 edition., pp 11.8, 11.9.

 WBL AND TO MAKE THE PROPERTY OF T
- "RF Ammeters for High Frequency Measurements"; Amateur Radio, November 2004.
- Backyard Antennas; Peter Dodd, G3LDO, published by RSGB, pp 184,185.

Photos: Andrew Diamond (www.andrewdiamond.net).

WA's new Yaesu Dealer

Precision Frequency Counter



\$119 DELIVERED

8-digit LED display, clear reading able continuously (100ms

- Range & gate time adjustable continuously (100ms 10s)
- Selective range
- High stability
- Frequency measurement: 0.01Hz 2.4 GHz
 Period measurement
 Power: AC

Geoff White (VK6NX) 08 9498 1157
(Please leave a message if unavailable, I'm at home looking after a 18 month old future ha

116 Amethyst Cres, Mt Richon, WA 6112

cityonline@wdsl.com.au
Payment via Paypal, Cheque or Bank Transfer.



Cover story

21st Australian Scout Jamboree

Robert Broomhead VK3KRB vk3krb@unixtech.com.au

The cover photo depicts Nathaniel Ballinger VK3FNAT, who attended the 21st Australian Scout Jamboree at Elmore, in central west Victoria in early January. On this page, we see his homebrew two-metre antenna, and a glimpse of part of the campsite.

Nathaniel fitted his Scout group out with a homebrew two-metre quarter wave ground-plane antenna which he constructed with the help of Scout leader Ash Clark VK3SSB.

Nathaniel reported excellent coverage from his Scout portable QTH, with 5/9 signals into all local repeaters.



Photo 1 and 2 (above and above right): Nathaniel with his homebrew quarter-wave vertical for the 2metre band.

Photo 3 (right): The entrance to the troop's campsite
-the mast and antenna is just visible to the right of
the entrance gate





The 21st Australian Scout Jamboree AJ2007

Get in the game

Sleepy Elmore invaded by 13,000 energetic youngsters

Robert Broomhead VK3KRB

On 2nd January 2007, the quiet Victorian country town of Elmore had a population explosion by a factor of about 10 as it became host to around 13,000 Scouts and 8000 leaders and assistants attending the 21st Australian Scout Jamboree called AJ2007. The 12-day Jamboree, held at the Elmore Field Day grounds, came complete with its own police station, hospital, fire station, FM radio station, multiple rock stages, and of course hundreds of amazing activities for 13,000 energetic Scouts.

Taking prime location near the centre of the Jamboree site was the Scout Radio and Electronic Service Unit's amateur radio station VI3JAM. Visually locatable from just about anywhere within the site (due to its enormous antennas and masts), wisting Scouts kept VI3JAM active and on the air since early Tuesday morning. The Jamboree had only just started and we had so many contacts within Australia and overseas, it was fontastic. All the station equipment is working perfectly and the Scouts have just been having a ball said station manager Hayden McManus VK4FBST

The Radio and Electronic Service Unit constructed four individual operating positions within a large modern airconditioned Atco hut. Each operating position was fully decked out with state of the art radio and computer equipment kindly donated by Icom Australia and BKB Internet. Outside, the antenna farm constructed by the Service Unit was very impressive. Independently rotatable beams were in place for 2 m and 70 cm,

10/15/20 m, and 6 m, as well as a series of dipoles for operating on the lower HF bands. VI3JAM was on the air, on the usual

calling frequencies for all bands 160 m through 70 cm.

Encouragingly, a number of Scouts attending AJ2007 and visiting the VI3JAM station had already heard of the new Foundation Licence. A number of young Scouts attending the Jamboree already had Foundation call signs and were spotted roumning the Jamboree with 2 m or 70 cm handhelds strapped to their belts.

All Scouts visiting the VI3IAM station were given information on amateur radio and the new Foundation Licence by way of promotional material provided by the WIA. The material included the WIAS. new colour brochure "Calling CQ", which outlines the many enjoyable and interesting aspects of the hobby. Also included in the promotional material was a listing of contact details for the group leaders from the various radio

clubs providing Foundation training and assessment. The promotional material asto included a follow-up form, which could be filled out to request follow up by the Radio and Electronic Service. Unit with more information on how to become a radio amateur. Also on sale at the V13AM station were copies of "Your entry into Amateur Radio", the Foundation licence manual, for anyone who was keen to purchase a copy and start studying.

A highlight for the Jamborce, and the VIJAM station, was when the 20 lucky Scouts who had entered the "What would I ask an astronaut" competition via MA 2007 website and were selected to pose their questions in person to Suni Williams KDSPLB in an ARISS hook-up with the International Space Station (see the following story).

A commemorative QSL card is being issued to all stations who have worked VI3JAM. The WIA website has a series of photos taken around the Jamboree and VI3JAM station sites.

Spotlight on SWLing

Robin L. Harwood VK7RH

2007 has arrived and HF propagation has been up and down. There have been several fadeouts which have disrupted telecommunications. Also, a minor earthquake near Taiwan knocked out undersea cables, severely disrupting telecommunications between Asia and the rest of the World for about a week.

As predicted, DW largely ceased using senders from Germany, following the contract with VT Merlin. Although the Nauen site in the former East Germany is still being used, the majority of DW

programs now are transmitted from outside of Germany. The former German Telecom sites of

Werchatal and Julich are still transmitting, but for other clients such as the Polish Radio or sundry religious broadcasters. Christian Voice International takes possession of these two sites mid year.

Radio Finland exited HF on the 31st December, leaving Radio Sweden International as the sole Scandinavian broadcaster left on shortwave. The disappearance of Radio Finland also saw the cessation of regular weekly news bulletins broadcast in classical Latin. Vatican Radio only has Latin Masses.

Vatican Radio only has Latin Masses. I must apologies for this hurried brief column this month due to my father's death from a terminal illness. I have a eulogy to prepare. I soon shall get back to normal monitoring, as I have renewed my subscription to dxtuners.com and Bignond Broadband also has significantly increased their download limit for the

same rate, which will make matters more

economical.



The lucky Scouts erupt in a cheer at the end of the contact with the International Space Station.

VI3JAM contacts the ISS

Over the last couple of weeks, we have been keeping you up to date with the preparation and activities of VI3JAM the special event station of the 21st Australian Scout Jamboree held in the country town of Elmore in Victoria. The highlight of AJ2007, the 21st Australian Scout Jamboree, was on Sunday evening when a planned hook-up with the International Space Station took place, enabling 20 Scouts to speak with Suni Williams KD5PLB. The 20 lucky scouts were selected from the 13,000 attending the Jamboree through a "What would I ask an astronaut" competition conducted via the AJ2007 Jamboree website. Everything was going to plan - well almost everything. The contact was on schedule, the equipment was working, the 20 scouts were pumped, but unfortunately so was popular New Zealand rock band Evermore, which was providing a concert on the main Jamboree

through a massive EAW PA system. The acoustic interference was causing the entire VI3JAM shack to vibrate and shake. Luckily Alistair VK3FAWB, a professional in the audio industry, came up with the great idea to line the exterior shack wall facing the band with a 6 foot stack of hay bales. The team constructed the wall and provided what felt like 3 dB of noise reduction from the band. With this in place and 20 Scouts ready at the microphone, and many hundreds more outside the shack looking on via close circuit television and with the event simulcast on the local Jamboree FM radio station, the contact was underway.

An ARISS telebridge was utilised and Philip Adams VK3JNI kicked off proceedings initially talking via the telebridge to Will Marchant KC6ROL from the space science laboratory at the University of California, the team leader for the evening's ARISS contact, then in turn speaking with Shane VK4KHZ

Robert Broomhead VK3KRB

providing the uplink from his home in VK4 to the ISS orbiting some 300 km above the earth.

above the earth.

Right on schedule, the voice of Suni
Williams KD5PLB was heard loud and
clear and the question and answer session
began. Everyone listened intently.

The whole contact worked perfectly and ended in an enthusiastic cheer from both the team inside the shack and the many hundreds listening outside.

The AJ2007 team would like to acknowledge ICOM, BKB Internet, Minuteman Press, ARV and the WIA who all generously supported the amateur station and enabled the ISS contact.

If you would like to hear a full recording and see pictures of the contact, then visit the WIA's website, http://www.wia.org. au/ and click on the news story titled "NAISS calling – and the band played on".

Photos by Robert Broomhead VK3KRB.

Filotos by Robert Broomin

AMSAT

Rill Magnussen VK3.IT

Global Educational Network for Satellite Attention all telemetry and data collection

Operations

buffs! An ESA Assessment Study for this project began in June 2006 and a large number of the study team attended the AMSAT-UK 2006 Colloquium as part of the SSETI contingent, AMSAT-UK representatives later attended a meeting hosted by Neil Mellville of ESA, where they received a briefing on the purpose of a project called GENSO, which is to provide a global infrastructure that will be available for future educational satellite projects. It is envisaged that a world-wide network of ground stations could increase real time collection of telemetry data from amateur [and other scientific1 satellites from an average of 3% at present to a notential 60%. This data could be available in real time on the www resulting in a huge improvement in efficiency. As a result of this meeting

The AMSAT group in Australia

The National Co-ordinator of AMSAT-VK is Graham Ratcliff VK5AGR Contact Graham if you wish to be placed on a mailing list for breaking news and net reminders. As a forum for members. AMSAT-VK operates two monthly nets.

AMSAT-Australia Echolink Net

The "Echolink" net meets on the second Sunday of each month. Anyone with an interest in Amateur Radio Satellites is welcome to join the net. Graham VK5AGR acts as net controller. The net starts at 0500 UTC during summer time periods and 0600 UTC during winter standard time periods. Connect to the AMSAT conference server on Echolink a few minutes before these times.

AMSAT-Australia HF net. The HF net meets informally on the

second Sunday of each month. In winter (end of March until the end of October) the net meets on 3,685 MHz at 1000 UTC. In summer (end of October until end of March) the net meets on 7.068 MHz at 0900 UTC. Start listening 15 minutes before these times. All communication regarding AMSAT-Australia matters can be addressed to: AMSAT-VK

9 Homer Rd. Clarence Park, SA. 5034 Graham's e-mail address is: vk5agr@amsat.org

AMSAT-LIK joined with ESA, the SSETI Association UNISEC and several universities around the world to determine the technical feasibility of the project and define a comprehensive set of technical requirements with suggested design solutions. A month later the first workshop was held at the University of Tokyo to discuss the proposal and the notential for inter-continental collaboration. The response from the amateur radio and academic communities was narticularly promising. The implementation plan produced at the second workshop, held in Sentember, included work packages a preliminary schedule and a budget framework. The plan was presented to the International Space Education Board during the International Astronautical Congress held in Valencia in October. The Board gave the go-ahead to start the design and implementation of the software and hardware, with the objective of running a pilot phase in around a year's time. A workshop is planned for February 2007 to discuss progress and the core features should be ready for testing by mid-2007. If all goes according to plan, they hope to have the network fully operational from November 2008 onwards. ESA will provide funding for software development and overall project management. The project will bring together other space agencies like CSA, JAXA and NASA, Neil Melville of ESA said. "One of the key aspects of this project will be that the network is developed 'by students for students'. with the technical support and guidance of the snace agencies and the radio amateur community". So far the amateur radio input has been provided by AMSAT-UK. who has been asked to define the typical ground station in terms of hardware and to provide supporting software. They will be asking for your input in the form of a questionnaire which will appear on AMSAT-BB. The data collection and ground station software, developed as part of the project will be made available to the AMSAT community. More information can be found at:

http://www.esa.int/esaED/

Watch also the AMSAT-UK website.

SEM8HFZBYTE index 0.html

AMRAD AO-27

controllers lose contact

Reports are to hand that the AMRAD team members are having difficulty in establishing communications with this LEO. It has not figured highly in activities in this part of the world. Apart from brief periods early in its life it has only been switched on while over the northern hemisphere AO-27 was launched on September 26, 1993. It carried an unlink on 145.850 MHz FM and a downlink on 436 795 MHz FM

More Cubesats Another batch of Cubesats was due

for launch on 11th December 2006 AX.25 1200hps FM/AFSK telemetry transmissions should be available on 70 cm immediately after deployment. Details will be available at www.Genesat1.org.

Six-monthly review of operational satellites in the amateur radio service

VO-52 HAMSAT Catalogue number: 28650

Launch Date: May 05,2005 Status: Operational U/V:Indian Transponder in use at present Frequencies:

Indian Transponder:

Uplink: 435,220 MHz to 435,280 MHz

LSB/CW Downlink: 145.870 MHz to 145.930

MHz USB/CW Dutch Transponder:

Unlink: 435.225MHz to 435.275MHz LSB/CW

Downlink: 145 875MHz to 145 925MHz USB/CW

Indian Beacon: 145 859330 MHz CW Dutch Beacon: 145.860MHz 12WPM with CW message

Webpage: http://www.amsat.in/hamsat.htm

AO-51 ECHO

Catalogue number: 28375 Launch date: June 29, 2004 Status: Operational Analog voice downlink: 435,300 MHz FM

145.880 MHz FM 145.880 MHz USB 145,920 MHz FM 67 Hz PL tone 1268,700 MHz FM 67 Hz PL tone

Digital Downlinks: Pacsat Broadcast Protocol 435,150 MHz FM, 38k4 Digital

435.150 MHz FM, 9k6 Digital 2401.200 MHz FM, 38k4 bps, AX.25 Digital Uplink: 145.860 MHz FM, 9k6

1268.700 MHz FM, 9k6 Broadcast callsign: PECHO-11 BBS callsign: PECHO-12

Webpage: http://www.amsat.org/amsatnew/echo/

435 150 MHz FM

2401.200 MHz FM

Analog voice uplink:

SO-50 SAUDISAT-1C Catalogue number: 27607

Launched: December 20, 2002 Status: Operational. Uplink: 145,850 MHz

Downlink: 436.795 MHz To switch the transmitter on, you need to send a CTCSS tone of 74.4 Hz to arm

the ten minute timer. Then transmit on 145.850 MHz (FM Voice) using 67.0 Hz to access the repeater within the 10 Minute window.

FO-29 JAS-2 Catalogue number: 24278

Launch Date: August 17, 1996 Status: Operational Voice/CW Mode JA Uplink: 145.90 to 146.00 MHz CW/LSB Downlink: 435.80 to 435.90 MHz

CW/USB Beacon: 435,795 MHz Digital Mode JD

Uplink: 145.850 145.870 145.910 MHz FM Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK Callsign: 8J1JCS

Digitalker: 435,910 MHz Current mode switching details on the AMSAT web site.

AO-7 AMSAT OSCAR 7

Catalogue number: 07530

Launch Date: November 15, 1974 Status: Operational when in sunlight Current Reported mode: Mode-A Unlink: 145 850 to 145 950 MHz CW/USB 432,125 to 432,175 MHz CW/LSB Mode B Downlink:

Mode A

29,400 to 29,500 MHz CW/USB Mode A (1W PEP)

145.975 to 145.925 MHz CW/USB Mode B (8W PEP) Beacons: 29,502 MHz, 145,972 MHz

Official Webpage: http://www.amsat.org/amsat-new/ satellites/sat summary/ao7.php

International Space Station (ISS) - ARISS

Catalogue number: 25544 Launch date: November 20, 1998

Status: Operational Current Mode: Occasional Voice

The Expedition 14 crew is: Commander: Michael Lopez-Alegria - KE5GTK

Flight Engineer: Mikhail Tyurin -RZ3FT

Flight Engineer: Thomas Reiter -DF4TR

Digital/APRS: Worldwide packet uplink:

145.990 MHz FM Worldwide packet downlink: 145.800 MHz FM

Voice: Region 1 voice uplink: 145.200 MHz FM Region 2/3 voice uplink: 144.490 MHz FM

Worldwide downlink: 145,800 MHz FM SSTV testing reported on 145.800 MHz FM Callsians: German: DP0ISS Russian: RS0ISS, RZ3DZR USA: NAISS

Packet Mailbox: RS0ISS-11 Digipeater callsign: ARISS Official ARISS Webpage: http://www. rac.ca/ariss

AO-51 ECHO Catalogue number: 28375

Launch date: June 29, 2004 Status: Operational Current Mode(s): FM Repeater - V/U

PBBS - V/U - 9k6 PBP

Analog voice downlink: 435,300 MHz FM 435 150 MHz FM 2401.200 MHz FM

Analog voice uplink: 145.880 MHz FM 145.880 MHz USB

145.920 MHz FM 67Hz PL tone 1268.700 MHz FM 67Hz PL tone Digital Downlinks: 435,150 MHz FM, 38k4 Digital, PBP, 1 watt output

435.150 MHz FM, 9k6 Digital Pacsat Broadcast Protocol 2401.200 MHz FM, 38k4 bps, AX.25

Digital Uplink: 145.860 MHz FM, 9k6 Digital, Pacsat Broadcast Protocol 1268,700 MHz FM, 9k6 PBP Digital

Broadcast callsign: PECHO-11 BBS callsign: PECHO-12 Webpage: http://www.amsat.org/amsatnew/echo/

AO-16 PACSAT Catalogue number: 20439

Launch Date: January 22, 1990 Status: Semi-operational, the digipeater command is open for APRS users.

Uplink: 145.900 FM 145.920 FM 145.940 FM

145.960 FM Downlink: 437.026 MHz SSB (1200-baud PSK)

Mode-S Beacon: 2401.1428 MHz Broadcast callsign: PACSAT-11 BBS callsign: PACSAT-12 Webpage: http://www.amsat.org/amsat/ sats/n7hpr/ao16.html

UO-11 OSCAR-11

Catalogue number: 14781 Launched: March 1, 1984 Status: Semi-operational

web site.

Telemetry Downlink: 145.826 MHz. Webpage: http://www.users.zetnet.

co uk/clivew/ The above list is not exhaustive

but includes those of most interest to amateurs in this part of the world. A number of satellites are listed elsewhere as operational but only their beacons are active - or they are at present undergoing testing or recovery efforts. A complete list is kept up to date on the AMSAT-NA

ar

Awards

Mal Johnson VK6LC WIA Awards Manager.

WIA Multiband DXCC Program annual "DXer awards" 2006

This new annual award was introduced in June 2005 and has only been running 18 months. We have now 17 stations certified. For this period, we have six operators that have top tallies for 3BDXCC, 4BDXCC. 5BDXCC, 6BDXCC and 9BDXCC.

They are:

1. 9BDXCC - VK.

Peter Forbes VK3OI of Glen Iris, Victoria. Top tally of 2416 countries over 9 Bands.

2 SRDXCC - DX

Helio Carlota PY2DBU of Jundiai. Brazil. Top tally of 993 countries over 6 Bands

3. 5BDXCC - DX.

Harry Kotlyarov UA6LDD of Taganrog. Russia. Top tally of 907 countries over 5 Bands.

4. 5BDXCC - VK. Allan Greening VK3PA of Dunolly,

It can only be awarded to the same

Victoria, Top tally of 848 countries over 5 Bands.

5. 3BDXCC - VK.

Eddie de Young VK4AN of Maryborough. Oueensland. Top tally of 722 countries over 3 Bands.

6 3RDYCC - DY

Charlie Ho VR2XMT of Fanling, Hong Kong. Top tally of 615 countries over 3 Bands

Multiband DXCC Program, 1st September 2005

W.I.A. DXer Awards

The "WIA DYer" awards are for 3-11 Rand classes, awarded to Australian and Overseas participants where applicable. The close off date for these awards will be 31 December each year.

person once in every 3 years and all awards will be judged on performance, participation and spirit exhibited towards the MultiBand DXCC Program.

Certificates:

These are truly outstanding, colourful and have a world class identity. All of these awards are graphically designed for A4 with a thickness 200 gsm Colortech. They are produced and donated by the Awards Manager.

All awards will be approved by the National Board of Directors, and signed by the WIA President and the Awards Manager.

> WIA Awards Manager. Mal. VK6LC



Fully Isolated Radio-PC Interface

Connecting rig to PC soundcard USB port to control PTT and frequency

Pocket Frequency Counter Frequency Range

Stability: 1ppm (VCXO) Battery: Rechargeable Li-lon



http://featuretech.co.nz

Ph: 64-9-630 5078 Fax: 64-9-630 5038 Email: sales@featuretech.co.nz

Featuretech Limited



Andrews Communications Systems ANDREWS TS-5118 ANDREWS FD-160A Factory

importer 2 m 2 W HANDHELD

Commercial quality 100 ch. memory

- Scanning searching AC plug pack NiCad battery
- Compact ONE YEAR WARRANTY *



Factory

direct 2 m 5 W HANDHELD

Commercial quality 99 channel memory

- Scanning CTTCSS
- DCS + Reverse Repeater, AC plug pack

NiCad battery, etc. ONE YEAR WARRANTY

AUSTRALIA'S LARGEST importer AMATEUR RADIO DISCOUNTER

EST. 1976 **30TH** ANNIVERSAR SALE



YAESU FT-857D \$1199 HF + 6 m + 2 m + 70 cm + DSP



HF + 6 m + 2 m + 70 cm + DSP + colour!

Factory direct importer

THREE YEAR WARRANTY



ALINCO DR-635T NEW TWIN BAND MOBILE!

DJ-C7 Mini Dual band Handheld \$299 DJ-596E MKII Dual band Handheld \$299 \$399 DJ-V5E Dual Band Handheld DR-135T Mk3l 2 m Mobile \$269 DR-435E UHF Mobile \$349 DJ-V17 5 W. 2 m H/H with DTMF etc \$149 DJ-X7 Wideband H/H scanner \$299 DX-70TH HF-6 m Transceiver \$1199 DX-77E HF 100 W Transceiver \$1399 DJ-X3 Tiny Handheld Scanner \$229 D.J-X10 All mode Handheld Scanner \$400 \$679 DJ-X 2000E Deluxe H/held Scanner EDX-2 Auto Tuner \$399 DM-330MVZ 3 2 A Power Supply \$369

NEW VX-6R Dual band Handheld \$429

VX- 2R w/BONUS FNB-82Li \$329 FT-1802M 50W 2 m Mobile \$279 VX-7R Deluxe Tri band Handheld \$529 FT-60R Dual band Handheld \$329 VX-170 w/BONUS FNB-V57H \$269 FT-817ND HF-70 cm Portable \$899 FT-857D HF-70 cm \$1199 FT-897D HF-70 cm \$1299 FT-2800M 2 m Mobile \$299 FT-7800R Dual band Mobile \$399 FT-8800R Dual band Mobile \$599 FT-8900R Quad band Mobile \$669 VR-120D Scanner w/SOFT CASE \$249 VR-500 All Mode Handheld Scanner \$399 Yaesu antenna tuners & rotators discounted FC- 20 ATU \$399.00 FC-30 ATU \$399 FC-40 ATU \$399.00 FP-30 P/S \$439

FIRST WITH THREE YEAR WARRANTY **ANDREWS 2780**

Twinband Mobile 50W/35W etc

WIRELESS WEATHER STATIONS LARGE LCD DISPLAY FROM

LINEAR AMPLIFIERS TOKYO HY-POWER, ANDREWS, TE, PALOMAR AMERITRON VAESIL ICOM — ALL DISCOUNTED —

NEW IC-P7A Tiny DualBand H/held IC-706 MKIIG HE w/BONUS 2m HH \$1399 IC-718 HF 100 W \$999 IC-746Pro-or-IC-7400 HF 2m ea \$2699

IC-V82 NEW 7W 2 m Handheld \$299 IC-756Pro III HF- 6 m \$4499 IC-T90A Triband w/BONUS BP-217! \$449 IC- 208H Dual band Mobile \$549 IC- 2720 Dual band Mobile \$649 IC- 2200H 2 m 50 W Mobile \$329 IC-V8000 2 m Mobile \$349

IC-910H 2 m-70 cm SSB w/BONUS DSP \$2199 IC-R3 Handheld Scanner with TV \$699 IC-R5 Handheld Scanner from \$299 \$679

IC-R20 Deluxe Handheld Scanner IC-R1500, IC-R2500, IC-PCR1500, IC-PCR 2500 IC-AH4 Automatic Tuner

IC-AT180 Automatic Tuner FIRST WITH THREE YEAR WARRANTY

ANDREWS 808 \$279 Highpower 75W 2m Mobile

 DIGITAL MULTIMETERS FROM \$6
 POWER SUPPLIES 20A-\$149, 30A-\$199, 60A-\$499
 MASSIVE STOCKS OF ANTENNAS OF ALL KINDS
 DUALBAND ANTENNA \$39 OSCILLOSCOPES to 100MHz . LDG TUNERS . SPECTRUM ANALYSERS to 2.9GHz

> - AUTOMATIC ANTENNA TUNERS -VAESIL ICOM TOKYO HY POWER BEST RANGE OF SCANNERS IN AUSTRALIA BEST PRICES TELESCOPES & BINOCULARS

TH-F7E Dual band Handheld TM-V708A Dualband remote mobile TM-D700A Dual band Mobile

TM-G707A Dual band Mobile TS-480HX HF+ 200 W 6 m+100 W \$1999 TS-480SAT HF-6 m 100 W+ATU \$1799 TS-570SG HF-6 m 100 W+ATU \$1999 TS-2000 HF-70 cm \$ 2699 TM-271A 2 m 60 W Mobile FIRST WITH THREE YEAR WARRANTY

NEW! ANDREWS HIGH CAPACITY REPLACEMENT BATTERY PACKS FOR YAESU, ICOM, ALINCO, KENWOOD!

MAIL ORDER SHOP 8 41 Bathurst Street SPECIALISTS

ANDREWS COMMUNICATIONS SYSTEMS (02) 9636 9060 9688 4301

Greystanes NSW 2145 Fax 9688 1995 www.andrewscom.com.au

\$479

\$599

Amateur Radio January/February 2007

SINCE 1976

\$649

\$849

\$499

\$299

WIA DXCC Standings, January 2007

Callsign	Countries	Callsign	Countries	Callsign	Countries	Callsign	Countries	Callsign	Countries
DXCC E	x. (337)	VK3DP	274/277	HS1NGR	101/000	Honou	Roll	VK4CXQ	179/000
Phone	(007)	VK3UY	264/266	VK5JAZ	100/000	(328) O		DL6UGF	161/000
VK5WO	337/370	JA7MGP	260/000	VK6ZAI	100/000	VK2UK	336/341	VK5ATU	158/160
VK6LK	337/362	VK2XH	257/000	DXCCE	x. (337)	VK4LC	335/382	VK2AR	156/159
VK3QI	337/351	DL3ASJ	256/000	CW.		VE6VK	335/380	VK3VB	153/155
VK3DYL	337/343	VK8NSB	255/000	Position V	acant	VK4UA	335/372	VK6HZ	151/000
VK3SX	337/343	VK3CIM	254/258	MONTH OF THE PARTY		VK3AMK	335/354	VK3JXO	146/000
Honou		VK8DK	253/254	Honou		VK3AKK	335/348	VK2SPS	144/145
		VK6DU	245/252	(328) C		VK3EW	335/341	SV1XV	142/144
(328) P		VK2FHN	243/000	VK6HD	336/357	VK3OT	334/348	VK4EZ	140/147
VK6HD	336/362	VK4AG	240/000	VK3QI	336/348	VK2AVZ	333/344	ON9MCR	129/140
VK5MS	335/389	VR2XMT VK8KTC	235/000 231/233	VK5WO	335/351	CT1EEN	333/337	ON5SPA VK3OZ	127/000
VK4LC	335/382	VK4DMP	227/228	VE6VK	330/357	VK4AAR	333/337	VK7CQ	126/127 123/125
VE6VK	335/372	DL6MRS	226/000	Genera	l listing	VK3UY	333/336	VK5DC	117/118
VK4UA VK3AMK	335/370 335/354	UA6LDD	225/226	- CW		PY2DBU	328/343	NOMSB	117/000
VK3AKK	335/354	VK8AM	225/000	VK6RZ	322/327	VK6RZ	328/334	VK9RS	111/000
VK2FGI	335/346	VK2AU	210/000	VK3AKK	312/317	Genera	listing	VK2AJE	109/000
VK3EW	335/341	VK3DVT	206/209	VK3KS	307/335	- Open		VK2WL	105/106
VK6NE	333/349	VK6RZ	201/204	VK4LV	300/307	VK6RO	326/333	UAOIGV	103/100
VK2AVZ	333/344	VK7JAB	198/000	CT1EEN	294/000	VK4LV	324/332	VK2AWD	102/106
VK1ZL	333/339	VK2EO	195/000	VK6AJ	292/304	VK3JI	322/351	VK5CO	100/106
VK2DEJ	333/339	GOVXX	184/000	VK4ICU	291/000	VK6LC	318/320	VK5GX	100/101
VK3TZ	332/336	VK3PA	178/179	VK4AN	281/287	VK4DV	315/330	DL1APX	100/000
CT1EEN	332/336	VK2EJK	176/000	VK3JI	274/299	VK4AN	311/319	RA3BZ	100/000
VK3OT	331/345	9A2KL	172/175	VK2CWS	245/247	VK4ICU	311/313	VK1AI	100/000
VK4AAR	331/335	VK6EH	170/000	VK3DP	245/247	DL1TC	302/303	Genera	listing
VK6APK	330/335	VK2BQS	166/169	AK3DO	243/270	VK3KE	300/303	- Data	
VK3CSR	329/338	DL9UBF	165/000	VK3CIM	235/236	VK7TS	295/296	VK3EBP	0501055
VK3EUZ	328/329	DL6USA	162/000	RD3AF	233/000	PY2DBU	294/298	VK3EBP	253/255 200/202
Genera	l listina	VK5EMI	160/000	VK7TS	219/000	VK2HV	289/000	VK3AWK VK3KE	197/000
- Phone		VK7LUV	160/000	VK3KE	215/000	VK3CIM	284/288	VK2BQS	126/128
		VK4ARB	159/160	VK6RO	209/211	VK6ANC	284/288	VK4AN	123/000
VK3YJ VK5FV	327/333	JA6KTY	156/000	DL7PA	203/000	9A2KL	280/283	DL4ARJ	120/000
VK4SJ	326/329 326/327	VK6HZ	151/000	VK2GR PY2DBU	181/188	UA6LDD	279/280	ON5SPA	111/000
VK2UK	324/329	VK2SPS	143/145	VK4CXQ	174/000	VK6DU	277/280	CT1EEN	110/000
EA3AKN	323/331	VK2QV	141/000	VK5UO	171/172	VK3JMB	277/000	VK5RY	100/102
VK6ABS	322/000	VK3JXO	141/000	SP9ADV	168/171	VK6MK	256/259		ting 6 m.
VK4LV	319/321	AK3DO	138/152	DK6AP	168/000	VK8NSB	256/000		ung o m.
VK1TX	319/000	VK8LC	137/000	DL6USA	165/000	VK3DQ	255/284	Open	
VK6LC	317/319	OK1ZSV	136/000	VK4UA	151/164	VK5UO	251/255	VR2XMT	154/000
VK6RO	313/320	VK4FNQ	134/000	VK4AAR	145/147	VK2CWS	251/253	VK4FNQ	141/000
VK3JI	310/325	SV1XV WA5UA	130/131	VK2AR	140/143	VK2FHN	247/000	CT1EEN	110/000
DL2AWG	309/000	VK4VIS		VK8AM	138/000	VK4DA	237/239	VK4ABW	109/000
PY2DBU	308/315	VK5ATU	127/129 126/128	NOTM	135/000	VK8AM	236/000	VK6JQ	103/104
VK4ICU	303/305	VK2IRP	125/126	DL1TC	133/000	DL9UBF	206/208	VK4CXQ	101/000
VK4EJ	300/302	CUSAAT	125/000	VK7DQ	131/132	DL6USA SP9ADV	201/000	Gen-list	ting -
VK6DY	297/301	SV1UT	123/000	DL6UGF	126/000	VK3PA	200/203 187/188	Satellit	e
JA3EY	296/300	VK2VZQ	122/000	VK6DU	125/127	VK2GR	184/191	VR2XMT	112/11
VK3KE	295/298	VK4EZ	119/125	DJ4BG	121/000	VK2BQS	183/186	VK3XDQ	106/000
DL1TC	294/295	VK5UO	112/115	VK5BWW	110/113	YNZDUS	100/100		
VK3DU	292/301	VK3CML	109/000	SM6GZN	110/111	If your	callsign is not	listed it mes	ns von have
VK2CA	291/000	AX4EJ	105/000	T94VT	108/000		ed in the last		you nave
VK2CSZ	290/293	SVIEOS	105/000	9A2KL	103/000		information a		able files are
VK4AN	289/296	VK9RS	104/000	DL3GDS	102/000		on our WIA w		
VK2HV	288/000	VK2RO	103/105	DXCC E	x. (337)		or email to:		
VK4BAY	287/290	3W2LC	103/000	Open		au/awards	or eman to:		i.org.au . ards Manager
VK7TS	285/286	SV1FTY	102/000	VK5WO	337/374				ros manager . Cannington.
9V1RH	283/285	SV1GVG	102/000		007,074			1.O.DOX 130	. cannington.

337/364

337/352

337/343

VK6HD

VK3QI

VK3SX

P.O.Box 196. Cannington. Western Australia. 6987. Mal. VK6LC

VK6ANC 282/286

VK3JMB

275/000

SV1GYG

VK6ISL

102/000

102/000

The WIA QSL Collection

Ken Matchett VK3TL

What you should know about the WIA QSL collection

The first thing that should be realised is that, as a member of the WIA, this is your collection of QSL cards. We hope that it is a collection of which you can be proud, for it has been built up over a period of more than forty year through the generous donation of hard-earned QSLs of hundreds of amateur radio operators from both Australia and overseas, together with valuable QSL cards donated from 'silent key' estates.

Some may believe that the Collection is concerned only with old OSLs. It is true that it contains a vast selection of such QSL cards dating back to 1921, when OSL cards were not printed, but were hand-written. It is indeed an extremely historically valuable collection that can be used by researchers of radio history. Photocopies of valuable QSLs may be obtained by historians free of charge upon request. Any member of the WIA is welcome to visit, by arrangement, the vast collection of QSLs, numbering hundreds of thousands. Displays of QSL cards have been held at several Radio Conventions, Individuals and clubs have the opportunity of purchasing at cost price a DVD (with audio) portraying a range of both pre-war and post-war QSLs. Such images give some idea of the early story of amateur radio, especially in the

field of DX.

WASUA

The pre-war part of the disc contains approximately 160 images of the OSLs of our own old-timers as well as those of many pioneers of radio, including Reinhartz 1XAM of the USA and De Loy of France F8AB, who in November 1923 became the first operators to bridge the Atlantic. The OSL of Alf Traeger 5AX, inventor of the pedal radio is here, together with the antenna designers Reg Varney G5RV, Carl Mosley KOAXS, Loren Windom W8GZ and Dick Bird G4ZU. Present in the Collection are the QSLs of Frank Bell Z4AA and Cecil Goyder G2SZ, who together made the first two-way radio contact on the amateur bands between NZ and Australia in October 1924. Also there are the QSLs of the world's most well known DXpeditionists, as well as those of kings, princes and senators.

The post-war part of the DVD (approximately 230 images) contains special prefix call-signs, most of which commemorate some significant historical event. It also contains an interesting thematic section and some of the most

attractive pictorial cards in the world. It should be remembered that today's QSLs will be rare items in another fifty years, so modern QSLs are also important to the Collection. It is a wonderful thing to save something for the future, be it vintage cars, heritage buildings or amateur radio equipment and OSL cards.

From time to time, the WIA makes appeals to all WIA members to play a part in building up and maintaining this valuable archival QSL card collection. Will you play your part?

The WIA takes this opportunity of wishing its members many happy hours on the bands, and for those interested in DX, good DXCC hunting.

Yours in amateur radio Ken Matchett VK3TL

Hon. Curator, WIA QSL Collection 4 Sunrise Hill Road,

Montrose Vic 3765 Tel: 03 9728 5350

QSLs:

Email: jeandawson@iinet.net.au

Thanks for contributions to the collection

The WIA would like to thank the following for their kind donation of

Estate Gil Moody VK3ZR. A good DX-er in his day. These were pre-war German QSLs carrying the old prefix D. A few of them showed the swastika and one QSL showed the operator at his desk with a photograph of Herr Hitler on the wall behind him. It's all history, isn't it? Cards courtesy of John VK3IO.

continued on page 47

WIA MultiBand DXCC Program. January 2007

106

Callsign	2m	6m	10m	12m	15m	17m	20m	30m	40m	80m	160m	Bands	Total
VK6HD			303	259	321	299	332	303	331	314	240	9	2702
VK3QI			289	271	300	282	335	303	292	236	108	9	2416
VK3EW			278	231	304	254	328	137	292	284	106	9	2214
CT1EEN		110	294	290	324	305	328	146	243	163		9	2203
VK5WO			155		153	106	254	109	225	134		7	1136
PY2DBU			199	125	187	104	276	102				6	993
UAGLDD			189		190		191		189	148		5	907
VK6LC			119		153		307		180	134		5	893
9V1RH				141	264	119	222		129			5	875
VK3PA	1 85550		133		139		253		136	187		5	848
VK2CA			163	102	205	112	210					5	792
VK4AN			217		233		272					3	722
VR2XMT		154			127	162	172					4	615
VK3DYL			114		168		296					3	578
VK3KE			114		175		286					3	575
VK2DEJ					114		305		101			3	520

128

336

<u>ALARA</u>

Christine Taylor VK5CTY

We hope Father Christmas brought you all you (thought) you wanted for Christmas and that despite this, you all had a great Christmas and

New Year.

From the weather maps, it would seem that Australia is living up to its reputation as the 'driest continent' in the world and that South Australia is the driest state in Australia — well, except for parts of Western Australia, where they had better than average rains. But that is Australia, sin't if 'A land of extremes. But isn't if the best country to call home?

The Florence Mackenzie Trophy

At last it is mounted on a suitable shelf in a prominent position - proudly on show, in the headquarters of the Scout Radio Interest Group in South



Interest Group in South Australia. If you remember, this is where the radio gear donated to ALARA several

years ago is housed and used regularly. Interestingly, this group came into being associated with the Radio Shack set up at the Jamboree in VK5 several years ago, and in the email this week is this story:

On 2nd January 2007, the quiet Victorian country town of Elmore had a population explosion by a factor of 10 as it became host to around 13,000 Scouts and 8000 leaders and assistants attending the 21st Australian Scout Jamboree being held at the Elmore Field Day grounds comes complete with its own police station, hospital, fire station, Fix and a station, multiple rock stages and of course hundreds of amazing activities for 13,000 energetic Scouts.

Taking prime location near the centre of the Jambores etile is the South Radio and Electronic Service Unit's amateur radio Electronic Service Unit's amateur radio station VI334M Visually locatable from just about anywhere within the site (due to its enormous antennas and masts), visiting Scouts have already kept VI3JAM active and on the air since early Tuesday morning. "The Jamboree has only just started and we have had so many contacts started and we have had so many contacts

within Australia and overseas, it's just been fantastic. All the station equipment is working perfectly and the Scouts have just been "having a ball" said station manager Hayden McManus VK3FRST"

The precedent set in VK5 has been continued in VK3 with the radio activity being a prominent part of the whole Jamboree. The callsign VI5JAM was used for the earlier Jamboree, so the tradition is continuing.

How good it is to see Hayden VK3FRST, obviously one of the first VK3 Foundation licensees, as the spokesman for the station.

I hope many of you had contacts with VI3JAM and continue to encourage the young people who will be our future amateurs

There was a contact between VI3JAM and the International Space Station which would have been heard by everyone listening on the frequency. I hope lots of the readers heard the contact and enjoyed it.

The International YL Meet in Mumbai

from Gwen VK3DYL For 4 days in October, I had fun representing the YLs of both Australia and New Zealand while attending the 8th International YL Meet, this time in Mumbai, India. This was my 5th International Meeting and I enjoyed catching up with past friends and making new ones.

The Meet was under the direction of Sarla VU2SWS, herself a member of ALARA.

ALARA.
Sarla had hired a couple of buses to
take us sight-seeing around Mumbai,
though how those buses managed to
make their way through the horrendous
traffic was quite unbelievable. ALARA
members Unni and Ingrid, together with
myself, one afternoon hired a Tuk-tim
which to travel to the shopping area
– never again! Our nerves were frazzled
but we still managed to shop and drink
beer/coffee. However, we returned to the
hotel by taxi!

Two of India's leading dance troupes entertained us for 2 evenings – absolutely fantastic – and another night we were let loose in a shopping Mall – no comment!

The stall traders (and monkeys) on Elephanta Island must have rubbed their hands with glee when they saw us coming but we had fun bargaining, and that's the main thing.

After 4 days, the main part of the group took off for a train and bus trip to Agra, Delhi and other nearby parts, while I had



Mumbai photo - L to R: Ikuko JA5GSG, Sarla VU2SWS, Carol WD8DQG, Eine SM0UOW, Ingrid LA8FOA, Evelyne FBSRPB, Gwen VK3DYL, Mio JR3MVF, Nori 7K3EOP, Unni LA6RHA, Phyllis W2GLB, Inger OZZAGR (AWOL) Photograph by Hardy DL3KWF

booked a car and driver to take me to see what I wanted to see, particularly bathing in the Ganges at Varanasi.

At a rough count there were 46 YLs, 14 OMs, 5 VU YLs, and some Indian officials

I had to give a PowerPoint presentation covering the 30-year history of ALARA – all in 10 minutes, hard work!!!! Altogether another great trip (but I'm glad I don't

have to wear a sari every day – hi!)

The photo shows the happy group of
ALARA members at the Meet. Thank you
for representing us internationally.

Remember the regular lunches

In VK5, these are held at the S.A. Museum in Adelaide at 12 pm on the second Friday of each month.

In VK6, the regular lunches are held on the third Thursday of the month at

the Royal Park Hotel in West Perth at 12 noon. Please contact the appropriate State Representative if you are visiting either of these cities.

And the regular radio

nets

Once a month, on a Sunday morning, there is a Friendship Net on Echolink. Contact Shirley VK5JSH for details of frequency, etc.

Each Monday afternoon at 0530 Zulu, the 222 Net is run on 14.222 MHz and on Monday night we have the ALARA Net on 3.580 +/- MHz at 1000 Zulu in summer and 1030 Zulu in winter. All YLs are welcome and the OMs can join in after one or two rounds.

In fact, please do this if you are looking for YL contacts for your ALARA Award. We are always prepared to give you an official contact after the net finishes.

Amateur Radio Bookshop



catalogue at

http://www.wia.org.au

Amateur

Radio

Bookshop PO BOX 3084 EAST BLAXLAND NSW 2774 Office: WIA National Office Tel 03 9528-5962 Fax 03 9528-8191

ARRL – RSGB publications books magazines CDROMs - DVDs

Twas The Night Before Christmas – Radio Style

'Twas the night before Christmas. And all through two-meters, Not a signal was keying up Any reneaters. The antennas reached up From the tower, quite high. To catch the weak signals That bounced from the sky. The children, Tech-Pluses, Took their HTs to bed. And dreamed of the day They'd be Extras, instead. Mom put on her headphones, I plugged in the key. And we tuned 40 meters For that rare ZK3. When the meter was pegged by a signal with power. It smoked a small diode. and, I swear, shook the tower. Mom yanked off her phones, And with all she could muster Logged a spot of the signal On the DX Packet Cluster. While I ran to the window And peered up at the sky, To see what could generate RF that high. It was way in the distance. But the moon made it gleam -A flying sleigh, with an Eight element beam,

who looked slightly mean. So I thought for a moment, That it might be Cousin Dean. But no. it was Santa. The Santa of Hams. On a mission, this Christmas To clean up the bands. He circled the tower, Then stopped in his track. And he slid down the coax Right into the shack. It into the earth, till The station was grounded. He tightened loose fittings. Resoldered connections. Cranked down modulation. Installed lightning protection. He neutralized tubes In my linear amp... (Never worked right before Twas the Night Before Christmas' Now it works like a champ). A new, low-pass filter Cleaned up the TV. He corrected the settings In my TNC. He repaired the computer That would not compute, And he backed up the hard drive And got it to boot. (It might be ORP!) Yes! The Ultimate Station!

How could I deserve this?

Could it be all those hours that Lworked Public Service? He hooked it all up and in record time quickly, Worked 100 countries. All down on 160. I should have been happy, It was my call he sent. But the cards and the postage Will cost two month's rent! He made final adjustments. And left a card by the key: "To Gary, from Santa Claus. Seventy-Three." Then he grabbed his HT. Looked me straight in the eve. Punched a code on the pad, And was gone - no good bye. I ran back to the station. And the pile-up was big. But a card from St. Nick Would be worth my new rig. Oh, too late, for his final came over the air. It was copied all over. It was heard everywhere. The Ham's Santa exclaimed What a ham might expect, "Merry Christmas to all,

And to all, good DX."

© Gary Pearce KN4AQ
kn4aq@arrl.net
Reprinted by permission

ar

And a little old driver



Get In Tune

PALSTAR INC Now available in Australia at TTS

Superbly engineered and robustly built in the USA



AT-AUTO -- A 1500 WATT HF AUTOMATIC ANTENNA TUNER.

A pair of stepping motors provide smooth control of a heavy-duty roller inductor and a 5KV split stator variable capacitor to form the heart of this superb ATU. No clunky relays rattling away in this one! 3 year warranty



ZM-30 ANTENNA ANALYSER

Digital Synthesis) based

antenna analyser, 1 to

30 MHz normalised for

50 ohms. The ZM-30 has

some nice features not

en on other units. 3 year

compact DDS (Direct

PM2000A & PM2000AM

The PM2000A (Bench top) and the PM2000AM (Mohile/Portable) watt meters feature cross-needle meters, peak and peak hold with backlighting.



WATT-METERS

Phone 03 5977 4808. Fax 03 5977 4801

Switchable power ranges are 300 and 3000

The Gold Standard SG-230 The SG-230 Smartuner was the first in the

HF market with fast, flexible tuning without any user interface. It senses RF when you transmit and automatically finds the best SWR match to your antenna. Works with ANY radio and ANY antenna and requires NO special interface. Use with base station, mobile marine applications.



Built to Last SG-237 Designed with high density surface mount

components on a 4 layer PCB, providing high efficiency, reliability and performance. The PCB is mounted on a sturdy chassis plate, an excellent electrical and RF ground system. Fully waterproof (under 2 ft of water for 24 hours). The case is weather resistant, high grade ABS plastic that is sealed at the factory.

Low Cost Smartuning SG239 Quality performance- low cost. The SG-239 will

operate from 1.8 to 30MHz with 1.5 to 200W. Over 130,000 possible tuning combinations and 170 mem bins for fast, accurate tuning. WIL WORK with any antenna and any transceiver. Push buttons for a manual tune option. It weighs only 1 kilo -use it for base, or portable!





Yaesu FT-897 and want a broad antenna hiner look no further The AT-897 A



your FT-897 just like the original equipment





Extended telescopic whips available for **Buddipole Antenna** Collapsed 534mm extended 2.9



TTS Systems Communications Equipment www.ttssystems.com.au Cystems FREE CATALOGUE

HF and VHF Transceivers, Autotuners and Kits

22

info@ttssystems.com.au

News from VK2

Westlakes Amateur Radio Club's Motto is "Progress through Activity". Frank Lusa VK2FJL

Activities include an ongoing Education program, covering Foundation, Standard and Advanced level tutoring and examinations. The pass rate speaks for itself. Westlakes Field Days have become a must for hundreds of local and interstate amateurs Each week members can be found in the activity room both giving and seeking assistance in repair of various pieces of equipment. The weekly meat tray has become a much sought after activity. possibly more popular than Westlakes acclaimed Field Day BBO's.

The radio shack is fully operational: on some days it is standing room only. Contesting has once again become a part of the club's activities, thanks to the efforts of a few dedicated contesters led by Paul VK2BPL. Last year's Inaugural Westlakes Cup







2/139 Beenleigh Rd, Acacia Ridge Brisbane, O'ld 4110.

Ph 07 3114 2506 sales@ozgear.com.au

We have yet MORE new product lines appearing in 2007 - the OzGear website always has the latest details.

їсом & YAESU

Authorised dealer with Icom Australia & Vertex Standard Australia WE DO NOT "GREY-IMPORT" LIKE SOME OTHER EQUIPMENT SUPPLIERS IN AUSTRALIA. ALL OF OUR PRODUCTS ARE NEW -WITH MANUFACTURER'S AUSTRALIAN WARRANTY.

To be safe, make sure you buy only from an authorised Icom/Yaesu dealer. If in doubt, ask before you pay! Authorised Dealer

Electronics parts and accessories

Ozgear - Tigertronics' only Australasian distributor – announces: The new SL-USB radio-to-PC interfaces are now available... & SL-1+ soundcard model still stocked

New radio needed ? Accessories to match? Antennas for home or car? Cables to link them together? That's what we do at OzGear every working day!

Talk to Doug VK4ADC, an amateur for nearly 40 years. - he understands what you want.

Shipping all over Aus & NZ

Product & pricing info? Phone, email or visit us on the web at

www.OzGear.com.au for the latest product info plus on-line ordering.







PERSONALISED QSL CARDS



This is a Westlakes Amateur Radio Club Project

News from...

VK2

Westlakes continued

was another first in many years for the club and should continue to grow. Another contest worth mentioning is the QR Repeater Contest held in May each year. This is an attempt by the club to encourage more use of at-times stagnant repeaters. It runs for one week and is open to all.

The WIA OSL Bureau is a continuous

area of activity where, thanks to VK2ZM with a couple of apprentices, hundreds of cards are processed each week ready for posting.

Once a month, the Library becomes a chaotic mess of paper, staplers and envelopes as the monthly magazine is assembled and made ready for postage.

Last year's activities culminated in a Christmas get-together. Our thanks go to Gloria, our canteen manageress, who unselfishly volunteered to cater for the 70 plus members, families and friends who attended. Gloria was assisted by an energetic committee: however the credit for the result, which was advertised as a buffet lunch but could only be described as a banquet, must go to Gloria's expertise. Amid balloons, streamers, bon bons and jazz caps, the tables were overloaded with a variety of typical Christmas offerings from Turkey to Trifles and everything in between. Unfortunately, the club rooms could not accommodate all the guests; many had to set up under the adjacent awning creating a carnival atmosphere. Pre-dinner activities included a try out with a set of quoits. The ability of those who fronted up is best left unsaid. They certainly would be well advised to stick to playing radio. All agree the day/evening was an outstanding success.

You don't have to take my word for any of the above, check out our web site www.westlakesarc.org.au.

Better still, call in any Saturday afternoon or Tuesday evening and judge for yourself.

Clubs

A new club on the scene is the Snowy Mountains Amateur Radio Club Inc., with the club callsign VK2SNO. They are operating a 2 metre repeater on 147.025 MHz, which is giving coverage up to 50 km from Adaminaby, Increased coverage is planned. Testing is underway with a repeater on 53.575 MHz. They have a net on Saturday night at 2030 on the 2 metre repeater. Their members have a range of activities including HF nets, VHF weak signal, aircraft enhancement, meteor scatter and Morse practice sessions. Instead of meetings and lectures, the Club intends to focus activity on field days and portable operation. The committee is President, Richard VK2HRM. Vice President and Treasurer. Bill VK2ZZF, Secretary and Public Officer, Alan VK2ADB and Repeater and Technical Officer, Fred VK2TVZ, A contact point is via adpeake@internode. on net

on.net.
Last month, Coffs Harbour held their
annual field day at a new venue in town
rather than at the small clubroroms. A
report will be given in future notes. This
month is the Central Coast Field Day at
the Wyong Racecourse, on Sunday the
18th February. It has been held since
1957. Don't forget the annual Urunga
Convention at Easter, first held in 1948.
This is followed on the June long weekend
by the Oxley Region field day. Hornsby
and District have introduced a Morse net
to their club activities – Thursday at 8 pm
on 3525 kHz.
A note to repeater officers to check out

A note to repeater officers to check out the entries in the 2007 callbook and advise Brian VK2WBK of NTAC and John VK3KWA of FTAC of any corrections. Also on the subject of repeaters – don't sneak your system 'on test' into any signaricularly a commercial one. Every so often the ACMA does a site audit and your test unit could be determined as an unlicensed device with embarrassing results.

The Oxley Region ARC has swapped around their 70 cm repeaters. The southern VK2RPM site now has 438.425 in place Tim Mills VK2ZTM Via vk2wi@ozemail.com.au>

of 8525 due to interference at the site. 8525 will be relocated to the northern VK2RCN site. Equipment overhaul and new antennas at VK2RPM have improved

the operation of 6700.

The Hunter Radio Group has made a frequency change to their 70cm VEZRCN repeater. It is now to be found on 438.025 MHz. The HERG resume meetings this month as well as the Monday evening near at 7.30 pm. They use some of the VEZWI material in their coverage, so it is a chance to eatch VEZWI news should you miss the Sunday transmissions.

Forty years ago, the then VK2 VHF Group was involved in a flying fox hunt on Saturday the 21st January 1967. These bats were raiding the apple orchards at Bilpin in the Blue Mountains and the thought was to equip one of them with a matchbox sized 2 metre transmitter and then track it back to their daytime roost. Well 'Charlie' the volunteer flying fox had other ideas and refused to become airborne before daylight arrived. So everyone packed up and went home and the reporter tagging along with the operation filed his story. The story broke on national radio news at lunch time Sunday, about how 'Charlie' had out foxed the hunters. Upset were some wildlife researchers who had been trying to obtain frequencies for tracking animals without success. A question to the authorities as to why these 'amateurs' could do it and they could not, brought a phone call Monday morning to the VHF Group President who had all the ramifications explained to him. The outcome was that the Department issued an edict that 'flying fox hunts were banned', something which confused other parts of Australia who were not aware of the operation.

ARNSW

It is 50 years since the formal opening of the VK2WI building by [the late] Allan VK2KB, while he was Minister for the Interior in the Federal Government. This took place in May 1957, but I have found a couple of dates. I am asking some of the older Amateurs who were around in 1957 if they can remember the occasion.

News from...

There is a plaque at VK2WI, which says it was on the 15th of May. However this day was a Tuesday. A more likely date which comes up is the 19th, which was a Saturday. Who remembers? If you can help please use the contact details below.

Allan VK2KB received life membership of the NSW Division for services to the hobby. Scanning back into the Amateur Radio notes in Electronic Australia, which were then written by Pierce VK2APO. there is a report in November 1969 of the presentation to Allan at the September 5th meeting of the Hunter Branch in Newcastle, During the time Allan was in Parliament, there were many occasions that he went in to bat for the hobby. There was one time when the Department had its eyes on the 40 metre band, which they wanted to take away from the Amateurs. Allan had the head of the Department brought before the House to explain the reasons. Needless to say we still have 40 metres

The Annual General Meeting of ARNSW, the trading am of the former NSW Division, will take place on Saturday the 14th April 2007. The Secretary of ARNSW, Owen VK2AEI, has called for nominations for the next Council and for agenda items for the meeting. The closs for these will be at 12 noon on Saturday the 2rd March 2007. In early December, ARNSW held an EGM to consider The ARNSW held an EGM to consider The Stagested Changes to the Articles. They

were on the number of Councillors and club affiliations. None attained the number of votes required by a Special Resolution to change the Articles. Following the EGM, a period of discussion was held and the meeting then adjourned for the annual end of year party.

Commencing this year, ARNSW will hold Foundation Licence Assessments and exams for Standard and Advanced on the last weekend of the even months. The first will be this month on 24th and 25th February. The April one will occur on 28th and 29th. Inquiries should be directed to the ARNSW office on 0.2 9689 2417, mail to P. O. Box 9432, Harris Park 2150 or email vk2w@ozennail.com.au.

Anybody who has been involved with building development knows that it is never a speed process. At year's end, the proposed shed for the Dural property was still with the local Council. It is going to be a while until the Trash and Treasure has its new home. The next T&T event will be on Sunday 25th March.

2007 Radio Homebrew Challenge

"The Radio Homebrew and Experimenters Group is posting a challenge for all members of ARNSW to build their own transmitter", announced Peter VK2EMU, their Coordinator, recently. It is to be more than a one transistor QRP CW rig, something really useful. The transmitter is to be Amplitude Modulated in the 80 metre band and crystal locked on 3686.4 kHz. This is a standard computer crystal. The transmitter is to have a power of at least 20 watts, be self-contained in its own box and include its own power supply. It can be solid state, valve or a mixture of both. The design can be your own, a commercial kit or anywhere in between. The judging will probably be in July 2007 and the aim of the challenge is for the transmitter to be substantially built during 2007 and not an update or rehash of a 20 year old project.

Learning Morse

ARNSW has a group of volunteers who provide on air transmissions under the call VK2BWI on 80 metres - 3550 kHz. Ross VK2ER, who helps coordinate the operation, advised that there was an increasing interest shown by the callbacks received. What is interesting, however, is that to date there have been no calls in by holders of a Foundation call. Ross further commented that he was recently in Europe, where there is still considerable interest in and use made of Morse in all aspects of operation, even though most countries in Europe had by then dropped the requirements. Strongest interest appeared to be in the eastern European countries. VK2WI continuous Morse is to be found on 3699 kHz.

All the best for 2007.

VK3

Amateur Radio Victoria News

Australian Jamboree – dust settles

What a sterling event to kick off the year! The Scout Radio and Electronics Service Unit worked hard and focused on making the special event station VI3JAM a success.

Amateur Radio Victoria is pleased to have been part of this activity at the 21st Australian Jamboree through its sponsorship and two volunteers who helped put VI3JAM on air. The activity that occurred 2-13 January at Elmore in north-central Victoria is well reported elsewhere in this edition of Amateur Radio magazine.

Centre Victoria RadioFest

This new event will take place on Sunday 22 April, at the Kyneton Racecourse only 50 minutes (75 km) by road from metropolitan Melbourne and an hour from Ballarat and Bendigo.

It is being established with the combined resources of the Midland Amateur Radio Website: http://www.amateurradio.com.au Email: arv@amateurradio.com.au Jim Linton VK3PC

Club, Central Goldfields Amateur Radio Club and Amateur Radio Victoria.

The possibility of holding a new regional amateur radio event was discussed earlier at the inter-club BBQ on 8 October, 2006, at Laanecoorie. An organising committee was formed late in 2006 with

representatives from each group.

Major commercial traders have had instant enthusiasm for the event; some seem to have been waiting for such a

marketing opportunity in Victoria.

For the latest information visit the

continued on page 34

					1	on Jackson	VK3DBB
TITLE	AUTHOR	ISSUE	PAGE	TITLE	AUTHOR	ISSUE	PAGE
ALARA				Harry Angel Sprint 2006	lan Godsil VK3JS	Jul	43
Profile: Joan VK3BJB	Christine Taylor VK5CTV	Jul	37	Jack Files Memorial Contest 2006	John Spooner VK4AJS	Apr	41
Awards				John Moyle	Denis Johnstone	Jun	44
3BDXCC	Mal Johnson VK6LC	Jan/Feb	46	Memorial National Field Day 2006 Results	VK3ZUX		
5BDXCC "Classic Award" 2005 (10-15- 20-40-80m.)	Mal Johnson VK6LC	Jan/Feb	46	NZ Memorial Contest 2006	Mrs Win Gilbert ZL2GI	Dec	59
5BDXCC "Premier Award"	Mal Johnson VK6LC	Jan/Feb	46	Ross Hull Memorial VHF-UHF Contest 2005-2006	John Martin VK3KWA	Mar	43
9BDXCC	Mal Johnson VK6LC	Jan/Feb	46	Spring VHF-UHF Field Day 2005	John Martin VK3KWA	Jan/Feb	41
Awards Update	Mal Johnson VK6LC	Oct	40	Summer VHF-UHF Field day 2006 -	John Martin VK3KWA	Mar	44
Formal Awards title changes from "RTTY" to "Digital"	Mal Johnson VK6LC	Mar	36	Results VK trans-Tasman 160	Bruce Renn	Sep	41
WIA DXCC Standings	Mal Johnston	Jan/Feb	45	m Phone Results	VK3JWZ		
as at 31 December 2005	VK6LC			Wadda Cup 2006	Bob Geeves	Apr	41
WIA MultiBand DXCC Program 2005	Mal Johnson VK6LC	Jan/Feb	46	Westlakes Cup Results (ex Wadda Cup)	Frank Lusa VK2FJL	Dec	52
World Amateur Radio Day 2006 Award	Mal Johnson VK6LC	May	40	Contest rules			
Contest results				2006 Remembrance Day Contest	Peter Harding VK4OD	Jul	46
160 metre VK /trans-	Bruce Renn	Sep	44	COQC QRP Day	Gerard Lawler	Jul	43
Tasman Phone Contest 2006	VK3JWZ	Зер	77	Contest 2006 Harry Angel	VK4TGL Ian Godsil VK3JS	Apr	42
2005 Remembrance Day Contest	Peter Harding VK40D	Jul	45	Memorial Sprint Jack Files Contest	John Spooner	Jun	43
2006 Remembrance Day Contest	Peter Harding VK40D	Dec	53	2006 John Movle	VK4AJS Denis Johnstone	Jan/Feb	42
26th ALARA Contest Results	Marilyn VK3DMS	Nov	45	Memorial Field Day 2006	VK3ZUX	Jan/reb	42
80 m Trans-Tasman Complete Results	Bruce Renn VK3JWZ	Jul	44	NZART Memorial Contest	Mrs Win Gilbert ZL2GI	Jun	45
2006				QRP Hours Contest	lan Godsil VK3JS	Mar	42
ANVDG 2005/2006 Long Distance Competition	Leigh Rainbird VK2KRR	Nov	52	RAOTC 30th Anniversary QSO Party	Ian Godsil VK3JS	Aug	44
Commonwealth Contest 2005	lan Godsil VK3JS	Jul	43	RAOTC 30th Anniversary QSO	Ian Godsil VK3JS	Oct	40
CQ RTTY WPX 2006	lan Godsil VK3JS	Sep	41	Party			
CQ RTTY WPX 2006	lan Godsil VK3JS	Oct	41	Ross Hull Memorial VHF-UHF Contest	John Martin VK3KWA	Nov	44
CQ WW CW Contest 2005	Phil Smeaton VK2BAA	Nov	41	2006-2007		0	
CO WW RTTY	Ian Godsil VK3.IS	Jun	42	Spring VHF-UHF Field	John Martin	Sep	42

Contest 2006

TITLE	AUTHOR	ISSUE	PAGE	TITLE	AUTHOR	ISSUE	PAGE
Summer VHF-UHF Field Day 2007	John Martin VK3KWA	Dec	56	AGM and the report to the Open Forum	Michael Owen VK3KI	Jun	3
VK/trans-Tasman Contest 2006	Bruce Renn VK3JWZ	Apr	42	Aircraft enhancement - A project beginning	Don Heberecht VK2RS	Sep	22
Westlakes Cup 2006	Paul Linsley VK2BPL	Aug	43	almost 50 years ago Amateur radio	Rob Ashlin VK3EK	Mar	10
Corrections	7 7 9 8 8 8			involved in Alpine Car Rally	NOD ADMINI TROCK	····	
The VK5BR-X Antennas - corrections to	Lloyd Butler VK5BR	Jan/Feb	5	An early radio amateur reminisces	Alan Gurr (SK)	Jul	18
original article				ANVDG 2005/2006 Long Distance	Leigh Rainbird VK5KRR	Nov	52
Cover Images				Competition			
Antenna array of Doug Friend VK40E - Summer Field Day	Image by Doug Friend VK4OE	Mar	OFC	AR Remembrance Day Contest - Opening Speech	Horrie Young VK2AMZ	Sep	5
Station Bill Roper VK3BR	Robert Broomhead	Jun	OFC	Aussie kids chat with the space station	North East Radio Group (NERG)	Sep	16
- Life Membership of WIA Awarded	VK3KRB			Barry Whittle VK3FBDW, Number	Robert Broomhead VK3KRB	Nov	15
Cape Jaffa Lighthouse	Various	Oct	OFC	1000 Benin 2006 -	Tom Wylie	Jul	14
David McAuley VK3EW at	Image by Peter Forbes VK3QI	May	OFC	DXpedition to darkest Africa	GM4FDM		
Commonwealth Games Special Event Station				Bill Roper VK3BR made an Honorary Life Member	Michael Owen VK3KI	Jun	5
Diamond X-200A Antenna of Hayden Honeywood VK7HAY	Hayden Honeywood VK7HAY	Apr	OFC	BPL Trial at Mt Beauty	Jim Linton VK3PC	Dec	22
Foundation licence opens doors for young amateurs	Mick Ampt VK3CH	Jan/Feb	OFC	Broadband Powerline Communications: Where are we now?	WIA EMC Group	Apr	26
Marconi World War 1 Spark Gap transmitter	Ron Churcher VK7RN	Aug	OFC	Celebrating the Commonwealth Games on the Amateur bands	Barry Robinson BK3JBR	May	17
The Briar Hill ARISS project - Amateur	Greg Williams VK3VT	Sept	OFC	Cheaper by the dozen	Ian Gray VK2ICS	Dec	7
radio in action				DXpedition to the top end via satellite	John Titmuss VK4JWT	Aug	28
Three generations of the Edmonds women, all amateurs	Edmonds family photos	Jul	OFC	East Gippsland Amateur Radio	Linda Stanford VK3VLS	Oct	31
Two Yaesu Handhelds	Ron Fisher VK3OM	Dec	OFC	Group goes to Point Hicks			
VK3FBDW - Number 1000 Foundation Licensee	Robert Broomhead VK3KRB	Nov	OFC	Getting into (new) gear for the John Moyle Memorial Field	Jack Bramham VK3WWW	May	27
General				Day		ļ.,	
2006 Uranga Radio Convention Inc.	Ken Golden VK2DGT	Mar	31	GippsTech 2006 – a quick summary	Peter Freeman VK3KAI	Aug	21
2006 Uranga Radio Convention Inc. Photographs	Ken Golden VK2DGT	Mar	IBC	How I solved mobile station installation problems of my own making	Neville Chivers VK2VO	May	19
A toaster oven in the radio shack?	Frank Winter VK4BLF	Jan/Feb	24	How to make contesting a little	Vince Henderson VK7VH	Oct	24
Adventures with a hand-held	Rob McKnight VK2MT	Sep	26	easier			



Get to Wyong Any way you can!

































- UNT ON YOUR NEXT PURCHASE

One Super Day

AESU Everyone's gonna be there!

TITLE	AUTHOR	ISSUE	PAGE	TITLE	AUTHOR	ISSUE	PAGE
Idyll Daze on the Clarence River	Richard Cortis VK2XRC	Oct	17	More JOTA activity from VK7	Roger Nichols VK7ARN	Dec	31
ILLW 2006 and VK3WI	Jim Linton VK3PC	Oct	34	New draft Australian	Glenn Dunstan	Mar	17
It's radio Jim, but not as we know it	Bill Isdale VK4TWI	May	7	40 m band plan New editor of	VK4DU	Jan/Feb	5
Lightning - effects of	Guy Fletcher	Sep	29	Amateur Radio			
a near strike	VK2KU	оор		Old Timers in wild	Ian Godsil VK3JS	Dec	48
Mackay at the Pine	Kevin Quirke	Oct	28	QSO Party			
Islet Lighthouse	VK4AKV			Old Timers turn 30	Ian Godsil VK3JS	Apr	17
Marconi Centenary Celebrations (Images)	Ron Churcher VK7RN and Barry	Aug	IFC, IBC	Operation Grassy Hill Lighthouse	JR (Rossco) Anderson VK4AQ	Oct	26
	Abley VK3SY			ORARC Inc 2006	Bill Brooke	Oct	31
Marconi centenary celebrations hailed a great success	Ron Churcher VK7RN	Sep	25	Lighthouse weekend - Operation at Tacking Point	VK2ZCW		
Maritime mobile operations on low power	Tony Halter VK3TLA	Aug	16	Packet Radio - yesterday, today and tomorrow	Ray Wells VK2TV	May	36
Michelle Ampt, VK3FAME - youngest amateur in VK	Mick Ampt VK3CH	May	33	Preparing for the Subaru rally of Canberra 2006, a	"A correspondent from VK1"	Jul	49
Mobile amateur radio	Steve Mahony	Mar	18	WICEN Event			
operation	VK5AIM			Profile: Joan VK3BJB	Christine Taylor VK5CTV	Jul	37



New Tet-Emtron Vertical Range TEV-4 TEV-3 TEV-3Warc

New Tet-Emtron Vertical Range Features

- · All Aluminium with Stainless steel hardware.
- · No adjustment needed to main antenna.
- · Light.
- Free standing—no intrusive guv wires.
- · 1 kW PEP power rating.

TET-Emtron if desired.

40 Blackburn Street

STRATFORD

- Can be ground mounted or elevated.

The new TET-Emtron Vertical range is designed with ease of use in mind. Tuning is done by the radials when the antenna is in its final position (where possible). The radials can either lay on the ground, be buried or hang from the elevated antenna. The antenna comes with a set of radials that has a resonant radial for each band. Further sets can be ordered from

See the web site for more info and a complete dealer list.

Fox: 61 3 5145 6

Victoria 3862 AUSTRALIA ARN: 87404541 www.tet-emtron.com Email: rawmar@hotkey.net.au

Ph: 61 3 5145 6179	Ante
Fax: 61 3 5145 6821	FREQUENCY
	ELEMENT HE
ABN: 87404541761	FEED IMPED
n	Max. RADIAL
	SWR
111	DOWED DATE

Antenna	IEV-4	
QUENCY	7, 14, 21, 28 MHz	
MENT HEIGHT	4090 mm	
D IMPEDANCE	50 ohm	
. RADIAL LENGTH	10.7 metres	
R	1.5 or less	





TITLE	AUTHOR	ISSUE	PAGE	TITLE	AUTHOR	ISSUE	PAGE
QSL cards from the WIA National QSL	Ken Matchett VK3TL	Dec	25	WIA Honour Roll - update 2006	Col Harvey VK1AU	Aug	20
Collection Radio Clubs combine	Tony Hutchison	Oct	36	WIA National QSL Collection	Ken Matchett VK3TL	Apr	16
for Lighthouse Weekend at Cape Jaffa Lighthouse	VK5ZAI	Out	30	WICEN Tasmania (South) tries a new approach for the 2000	Roger Nichols VK7RN	Nov	17
Radio skills needed for international disaster relief work	Red R Australia	Oct	23	Safari Tasmania Working AO51 on a	Paul Paradigm	Mar	14
Redcliffe's big day	Peter Richardson	May	23	budget	VK2TXT		
out at the John Moyle Contest	VK4TGV & others	indy	20	World Radiosport Team Ch'ship 2005	ARRL	Aug	53
Saint Anthony's Scout Group Toowoomba VK7SAT:	Matthew Weatherley VK4TMW	Dec	34	You can work DX from apartments	Ira Upton WA2OAX	Sep	24
JOTA 2006	VK41WW			General operating			
Secret Radio Communications	Dr Hank Prunckun VK5JAZ	May	47	How to make contesting a little easier	Vince Henderson VK7VH	Oct	24
Snapshot of amateur radio station VK3ZA	John Bennett VK3ZA	Jan/Feb	19	Try Echo Link yourself	Paul van der Weegen VK2EX	Apr	10
Team Contesting	Phil Smeaton VK2BAA	Nov	42	VHF-UHF Spring Field Day 2006	Greg Parkhurst VK1AI	Dec	26
The 13th IARU Region 3 Conference	Michael Owen VK3KI	Sep	3	Westlakes Field Day	Frank Lusa VK2FJL	Dec	38
The amateur-radio-	Vince Henderson	Mar	11	Grid square star	ndings		
friendly vineyard The Centenary of	VK7VH Barry Abley VK3SY,	Aug	5	Standings as at 3rd February 2006	Guy VK2KU	Mar	40
Australia's first overseas wireless transmission	Ron Churcher VK7RN	Aug	Ĭ	Standings as at 12th May 2006	Guy VK2KU	Jun	40
The man and his shack - Guy VK2KY,	Peter Freeman VK3KAI	Apr	24	Standings as at 4th August 2006	Guy VK2KU	Sept	40
Marulan, NSW The secret spectrum	Dr Hank Prunckun	Sep	10	Standings as at 3rd November 2006	Guy VK2KU	Dec	46
- clandestine broadcasting	VK6JAZ	Зер	10	Index			
Three generations of women on the air - is	Brenda Edmonds VK3KT	Jul	13	Amateur Radio Index 2005	Colwyn Low VK5UE	Jan/Feb	26
this a record?				Over to You			
Two Australian ATV records in three days!	Dan Joyce VK2GG	Nov	20	BPL	B McAleer VK4BCM	Jan/Feb	31
Ulverstone JOTA activities	Susan Brain VK7LUV	Dec	29	Aerial analyser improvements	Steve Mahony VK5AIM	Jul ·	22
VK7 Divisional Honour Roll unveiled	Justin Giles-Clark VK7TW	Dec	47	An efficient response	Rodney Champness VK3UG	Jun	5
Westlakes ARC at Norah Head	Frank Lusa VK2FJL	Oct	29	Are we accepting lower standards?	Peter VK3YSF	Apr	50
What would you have said?	Jinkin (Jay) Frame	Jul	50	Australian QSL card request for a book on our Ham Stations	Michael J Charteris VK4QS	Mar	49
What would you have said?	Jinkin (Jay) Frame	Aug	51	Broadband over power lines	Peter VK4PO	May	51
WIA BPL Interference Advisory Service	Phil Wait VK2DKN	May	4	Communications	Stanley Casperd G3XON	Nov	48
				CW on VHF/UHF Repeaters	Hank VK5JAZ	May	51

TITLE	AUTHOR	ISSUE	PAGE	TITLE	AUTHOR	ISSUE	PAGE
Foundation Licence Training and	Kevin B G Luxford VK3DAP/ZL2DAP	Jan/Feb	31	Allan M Doble VK3AMD	Ron Cook VK3AFW	Mar	19
Assessment Fuel economy	Mick Hort VK2BZE	Sep	15	Bruce Fleck VK2FS	Peter McAdam VK2EVB	Jan/Feb	47
Holes in round tube	Ted VK2ARA	Jul	6	Chris Jones VK2ZDD	Michael Owen	Sep	11
Keep it up, VK7HAYI	Kerry Power VK2TIL	Mar	45	Cimis dones vicebb	VK3KI	оер	
Let's understand	Brian VK2GCE	May	15	Chris Jones VK2ZDD	Owen Holmwood VK2AEJ	Oct	20
On-air behaviour	Gordon VK4KGS	Jul	6	Clifton John Arnold VK3AJA	Bob Neal VK3ZAN	Apr	23
RD Contest thoughts	Peter Harding VK4OD	Dec	52	Eddy (Ted) Burne VK7GB	Charles VK7PP and Phil VK7AX	Jun	38
Technical article shortage	Lindsay Lawless VK3ANJ	Mar	25	Elwyn Harriss VK7EH	Justin Giles-Clark VK7TW	Mar	50
The Black Stick errors	Glenn Dunstan VK4DU	Mar	25	Graham Pitts VK5GE/ VK6GF	Rodney Champness VK3YG	Mar	51
The selfish use of power	Wayne Melrose VK4WDM	Jul	6	Henry David Russell VK2BSC	WICEN News	Mar	7
Valves in Class C	Rodney Champness VK3UG	Mar .	49	Horace (Horrie) Stephens VK2ZES	Amateur Radio NSW	Mar	7
VK2YO article on mobile radio installation solutions	Gilbert Hughes VK1GH	Jul	40	Jack Wilson VK2XK	Son of Jak Wilson, name not recorded	Mar	7
Reviews - Books				James Mourilyan Swan VK2BQS	Helen M Swan	Nov	48
"Outback radio from 'Flynn to Satellites'"	Rob Gurr VK5RG	Jan/Feb	18	James Mourilyan Swan VK2BQS	Pat Leeper VK2JPA	Nov	48
Reviews - Equipment				Janet Bulling VK5NEI	Christine Taylor VK5CTY	Jun	47
SWR and power meters - Know your second hand	Ron Fisher VK3OM	Apr	20	John "Ho" Van den Bogert VK2HO	Wal Munn VK2JHN	Jan/Feb	32
equipment Ten-Tec RF Vector	Ron Sanders	Oct	6	John Edward Bayliss VK2JB	John Marriott VK2CIF	May	26
network Analyzer The Diamond X-200A Antenna	VK2WB Hayden Honeywood	Apr	18	June Fox, the voice heard by most WIA members	Brenda Edmonds VK3KT	Nov	16
The Elecraft T1 Kit	VK7HAY Chris Meagher	Apr	5	Ken Assender VK5ASN	Justin Giles-Clark VK7TW	Nov	38
	VK2LCD			Ken Saxon VK7AI	Winston VK7EM	Sep	33
The Icom IC-7000 HF, VHF, UHF all mode transceiver	Ron Fisher VK3OM & Eric Buggee VK3AX	Jul	24	Lindsay Collins VK2YN previously VK5GZ	Godfrey Williams VK5BGW	Mar	50
The Kenwood TS-820S and the Kenwood TS-830S HF	Ron Fisher VK3OM	Dec	57	Michael Rogers VK7DU	Mike VK7FB and Dave VK7DM	Aug	31
Transceivers				Mike Oliva VK3BVR	Damien Vale	Jul	40
The Yaesu VX-6R and FT-60R hand- held 144/430 MHz transceivers	Ron Fisher VK3OM	Dec	16	Peter Pavey VK3VB/ G3NFT	VK3RX Phil VK3YB	Aug	31
Silent Keys				Peter Pavey VK3VB/ G3NFT	Phil VK3YB	Sep	46
Alan Maxwell James (McCaskill) VK4SKL/p	Warren Fritz VK4FJ	May	26	Peter Waterhouse VK3CWP ex VK7ZPW (The Prickley Whisker)	Joe VK7JG ex VK7ZGJ	Nov	38
Alan McCaskill VK4SKL	Ed Roach VK3BG	Apr	23				

TITLE	AUTHOR	ISSUE	PAGE	TITLE	AUTHOR	ISSUE	PAGE
Reginald Albert (Curly) Moger VK1MV	John Clare VK1CJ	Oct	45	Calculating characteristic	Ron Sanders VK2WB	Apr	7
Richard (Dick) Andrew VK2UH	Ross Barlin VK2DVZ	Jun	50	impedance (Z0) of unknown twin cable			
Robin Powell VK7FRVP	Tony VK7AX	Dec	31	Compact 160 metre vertical	Mick Hort VK2BZE	Jul	5
Ronald Albert Hodges VK3HO	Allan VK3SM	Mau	48	Curtain rod antenna mast	Steve Porter	Oct	10
Ross Cuttle VK4VL	Jess Cuttle VK4VMK	Nov	38	Full-wave half-square antenna	Lindsay Collins VK2YN	Mar	9
Roy Goodwin VK5AXV	John Drew VK5DJ	Jan/Feb	17	In praise of the humble "Inverted Vee" Dipole	Felix Scerri VK4FUQ	Oct	5
Russell Meyers VK3PCN	From information suppied by Marj and Danny Meyers	Oct	41	Observations on VHF antenna height and other VHF path	Felix Scerri VK4FUG	Apr	8
Terry Detlefsen VK7KTD	Frank Lusa VK2FJL	Dec	38	curiosities			
Tim Chen, BV2A, founder of CTARL	Bolon Lin, MD, BV5AF	May	51	Some different ideas on the EH antenna	Lloyd Butler VK5BR	Jun	24
Vince Nugent VK2ALZ	AG (Ted) Dean VK2FUP	Sep	37	The difference between three and five elements	Felix Scerri VK4FUQ	Nov	6
William Hunter Jamieson VK2XXU	Henry Lundell VK2ZHE	Jan/Feb	46	The Slim Jim revisited	Bill Sinclair VK2ZCV	Sep	7
Sunspots Numbers				The VK5BR-X	Lloyd Butler VK5BR	Apr	11
Numbers for December 2005	Evan Jarman VK3ANI	Mar	45	reproduction of corrected original article			
Numbers for February 2006	Evan Jarman VK3ANI	Apr	51	The VK5BUG "Black Stick"	David Wescombe- Down VK5BUG	Jan/Feb	12
Numbers for April 2006	Evan Jarman VK3ANI	Jun	51	Transmitting baluns	Ron Sanders	Nov	7
Numbers for June 2006	Evan Jarman VK3ANI	Aug	46	for 1.8 - 30 MHz VK2WB Technical - Digital			
Numbers for August 2006	Evan Jarman VK3ANI	Oct	42	GPS software for your computer	lan Glanville VK3AQU	Nov	5
Technical Abstra	icts			Technical – General			
6 metre propagation	Mick Hort VK2BZE	Sep	6	A balanced pi	Drew Diamond VK3XU	Dec	11
Drilling holes in round tube	Peter Gibson VK3AZL	May	16	coupler for balanced antennas			
Voltage conditioners for IC-703 and FT-817	Peter Gibson VK3AZL	Apr	32	A dummy load for the new amateur radio practical test	Jim Tregallas VK5JST	Aug	10
Technical - Antennas				A jig for punching	Drew Diamond	Dec	5
A "sewer pipe" balun	Rob Gurr VK5RG	Nov	26	small holes in sheet- metal	VK3XU		
A balanced pi coupler for balanced antennas	Drew Diamond VK3XU	Dec	11	A scalable solar regulator	Dale Hughes VK2DSH	Sep	12
A tuner for the 160 vertical	Mick Hort VK2BZE	Aug	7	A simple computer- to-radio PTT interface	Vince Henderson VK7RH	May	6
A Vertical Whip for a Caravan	Ian Cowan VK1BG	Nov	22	A tuner for the 160 vertical	Mick Hort VK2BZE	Aug	7
ourorui,				An isolation unit for answering machines	P Anderson VK2GPT	Oct	21

32

TITLE	AUTHOR	ISSUE	PAGE
Build a replica of the Paraset or Type VII set	Malcolm Haskard VK5BA	Aug	11
Calculating characteristic impedance (Z0) of unknown twin cable	Ron Sanders VK2WB	Apr	7
Curtain rod antenna mast	Steve Porter	Oct	10
CW Central - a versatile keyer unit	Dale Hughes VK2DSH	May	10
CW Identification board	James Cutler VK2TIM	Jan/Feb	15
Dr Young sheds some light on VHF flutter (picketing)	Philip Gephardt VK3ACK	Mar	20
Dynamic Power	Bill Isdale VK4TWI	Jul	7
Electrical safety at the workbench	Kevin B G Luxford VK3DAP / ZL2DAP	Dec	20
Experiments in aircraft enhanced propagation	Barry Miller VK3BJM	Mar	5
GPS software for your computer	lan Glanville VK3AQU	Nov	5
Hamshack - a software collection to please all amateurs	Morrison Hoyle VK3BCY	Jul	10
How I solved mobile station installation problems of my own making!	Neville Chivers VK2YO	May	19
In praise of the humble "Inverted Vee" dipole	Felix Scerri VK4FUQ	Oct	5
Magneto-ionic holes: is your antenna coupling to the ionosphere	Robert R Brown NM7M	Sep	19
Making use of wireless LANs	Steve Fraser VK5ASF	Jan/Feb	20
Notes on the "drilled Perspex" method of making low-loss transmitting coils	Drew Diamond VK3XU	Dec	9
Portable operation on 160 metres	Lionel Curling VK3NM/VK6DC	Jun	6
Re-using microwave oven transformers for high-voltage power supplies	Drew Diamond VK3XU	Mar	26
Simple modification to TS520S	David Jackson VK5DWJ	Jun	5
Technical - Instri	uments		
A simple direct-	Drew Diamond	Jun	31

AUTHOR	ISSUE	PAGE
Steve Mahony VK5AIM	Jul	22
David Milne VK3DPM	May	13
Jim Tregellas VK5JST	Jun	9
eivers		
Drew Diamond VK3XU	Jan/Feb	6
smitters		
Drew Diamond VK3XU	Oct	12
Drew Diamond VK3XU	Nov	12
Drew Diamond VK3XU	Aug	22
Ron Sanders VK2WB	Nov	7
"A correspondent from VK1"	Jul	49
Roger Nichols VK7RN	Nov	17
	Steve Mahony VKSAIM David Milne VK3DPM Jim Tregellas VKSJST Sivers Drew Diamond VK3XU Ron Sanders VK2WB "A correspondent from VK1" Roger Nichols	Steve Mahony VKSAIM David Milne VK3DPM Jul VKSJST Jun Tregellas VKSJST Jun Drew Diamond VK3XU Drew Diamond VK3XU Drew Diamond VK3XU Aug Drew Diamond VK3XU Drew Diamond VK3XU Aug Drew Diamond VK3XU Aug Drew Diamond VK3XU Aug Ron Sanders VK2XW Aug Ron Sanders VK2WB

STOP PRESS

Parkes to be venue of next WIA Annual General Meeting

The WIA Annual General Meeting is planned for Saturday 5 May 2007 at Parkes, NSW.

The location had been chosen as it would provide the opportunity for a special technical tour of the Parkes Radio Telescope, which should be of great interest to amateurs.

Confirmation of the date and venue and details of the program being arranged around the AGM will be announced in the near future

VK3XII

reading Q meter

Australian made

ANTENNAS

Setting a new standard

COM-AN-TENA

(formerly a j and j coman)	
115 John Street GLENROY 3046	
23 cm 36 ele slot fed Yagi beam	\$232
2 ele delta loop 10/11 metre	\$255
40—80 metre vertical NEW	\$330
10/11 beams comp opt 5 ele	\$370
10/11 5/8 vert 4 rad 1/4 wave	\$208
Tri band IIB 35 C 10/15/20 m	\$782
3 ele 20 m comp opt	\$475
log periodic 9 ele 13 30 8.4 m boom	\$1098
NEW 160 m Vertical SUBURBA	M \$355
40 m linear loaded 2 ele beam	\$595
M B Vert auto switch 10/80 m	\$339
6 m 7 ele Yagi beam 60 mm boom	\$397
6 m 5 ele comptr opt beam	\$285
Top loaded 160 m vert	\$439
10 ele high gain 2 m 3.9 m boom	\$159
17 ele high gain 70 cm 3m boom	\$139

dual band 2 m 2 5/8 vertica;l Guved Masts

Rotable dinole 40 m

80 m top loaded vertical

21 metres 13 metres
Winch-up & tilt-over. Aluminium and stainless steel
three-sided construction. Auto-brake winches.

\$250

\$273

\$120

Free Standing Masts

9.5 metres
New Baluns
1-1 to 16-1 to 3kW



Mob: 0419 542 437

News from...

VK3

continued

Centre Victoria RadioFest website http://radiofest.amateurradio.com.au/.

"Calling CQ" a useful

The WIA has produced a colourful new brochure called "Calling CO" which is

ideal for promoting amateur radio.

Get a copy, have a read and put it to good use during 2007 to encourage others to join the hobby.

The upcoming Foundation Licence training and assessment sessions being held by Amateur Radio Victoria are: February 17 – 18, March 17 – 18, April 14 – 15 and May 19 – 20. For inquiries contact Barry Robinson VK3JBR 0428 516 001 or arv@amateurradio.com.au

Oppose change to RD Contest

A proposal to expand the memorial aspect of the Remembrance Day Contest is not supported by Amateur Radio Victoria.

suppose to yamateur radio victius. The RD Contest Manager, Peter Harding VK40D, in past sixed in December, Peter Harding VK40D, in past sixed in December, Peter Harding the Mousands of Australias on Service and the Mousands of Australias on Service and the Mousands of Australias on Service and the Mousands of Australias and Service and Serv

Amateur Radio Victoria on 19 December carefully considered and rejected the proposal. It believes the contest should remain solely as a memorial activity for

those honour roll radio amateurs who lost their lives in service of their country during World War II.

The WIA Federal Convention in 1947 resolved that there be established "Interstate contests on all bands annually to perpetuate the names of Amateurs who lost their lives in the services of this country in the recent war."

The preamble for the first RD Contest in 1948 stated that the contest be held annually "during the week-end nearest to 15th August each year – the date on which hostilities ceased in the South West Pacific Ara."

Amateur Radio Victoria asks its members to oppose the proposed change which would not only dilute the traditional purpose of the contest, but be impractical to implement.

The RD Contest Manager is seeking the views of all radio amateurs and can be contacted either QTHR or by email vk4od@wia.org.au.

Annual General Meeting The Secretary, Peter Mill VK3APO

The Secretary, Peter Mill VR3APO wishes to advise members that the Annual General Meeting will be held on Wednesday, 23 May, at St Michael's Hall, corner Victory Boulevard and High Street Ashbutton, commencing at 8 nm.

Street, Ashburton, commencing at 8 pm. Notices of Motion for the meeting close 2.30 pm on Tuesday 20 February, A further notice of the AGM and details of the business items to be discussed will be included in an annual report to members.

2007 VHF/UHF Field Day

Over the weekend of January 13-14th, the VHF/UHF Summer Field Day was held, stations all over VK, ZL and P29 took part. Max VK3WT and 1 (VK3WWW) had planned to get the 2 m and 70 cm phased arrays ready by the contest as it turned out we only managed to sort out the 2 m array. We packed up all the gear and headed off to the Wombat State Forest.

I had been consulting Radio Mobile and noted that the highest point in the forest was about 889 m, so with Ozi Explorer running on the PDA, we turned off the bitumen and headed into the forest. It wasn't long before I had doubts about my navigation so shortly after entering the forest we pulled over and fired up Ozi Explorer on the laptop and could now see the big picture and realized that we had made a wrong turn. It was not long before we arrived at the pre-determined grid reference and looked about for a suitable operating position, the entire rare was at

News from

a similar altitude so we looked for the highest point. We ended up travelling only a short distance along a reasonable track and chose a nice shady snot at an altitude of 900 m. As you can see in the photo Max is operating 6 m and 70 cm SSB, the 2 m station is off to the left and the generator is located in the foreground. There was quite a bit of activity during the day and it was great to work a few VK5 stations and hearing a VK2 from Kings Cross

The weather was excellent with a gentle breeze and in the shade I noted that the ambient temperature was 15° C so we both were wearing jumpers. We didn't make a lot of contacts but it was a great day out and as a regult we have a few icenee to attend to before the John Moyle Memorial Field Day in March It was around 19:30 when we packed up but this time when we left Max insisted that the lanton was activated so he could navigate out of the forest. I think I need to learn more about planning a route and navigating between waypoints. I took some video of our operating and will nost one or two to my site on youtube. To locate these just go to www youtube com and do a search for "vermontcreekhed"

Don't forget the IMMED in March now is the time to start preparing your gear VK3WWW Jack and VK3WT May



KVK Antenna Systems

Best value books in VK.

The VK Antenna Handbook for Restricted Spaces

Rest value antennas in VK

The NuReam

The Vertical-LR-dipole

As seen at Wyong

Check out the latest revision to the web site - more info, more antennas, more value.

For direct purchases www.grimshaw.net.au For credit card purchases: www.kvkantennas.com.au or ph 07-3216 8060 or fx 07-3216 8075

TVI High Pass Filter with Braid Breaker



An inline TVI filter with Braid Breaker

A large amount of TVI can travel down the outer braid of Coax as well as the centre conductor. The hraid breaker isolates the centre conductor and braid from the TV/VCR/DVD. The High Pass filter cute in at 50MHz This filter has -80dRm attenuation at 40, 80 and 160 Motroe

Pager Notch Filter: A receive filter that can be used

in an outdoor housing (Pictured) to be mounted close to your antenna on the mast, or can be used in a discast how for indoor

use near your transceiver or receiver. The filter is set to 148.5 MHz but may be tuned by the user across the 148 to 149 MHz Pager hand. A selection of connectors are available including BNC and N Type. Where transmit is required this filter can be switched out of circuit by the use of coaxial relays linked to the PTT switch

Contact us if you need a special filter, we manufacture here in Australia rather than overseasy

www.vicnet.net.au/~jenlex Email: ienlex@vicnet.net.au

Phone: (03) 9548 2594

FAX: (03) 9547 8545



News from...

VK3

continued

Geelong Radio And Electronics Society (GRES)

The last months of 2006 saw our members involved in many community based activities. John Collins VK3JCC taught a Foundation Licence course for the last school term of the year. John taught this on a Tuesday morning at the local Grovedale Secondary College, It is hoped that his initiative in approaching schools with the offer of teaching this course will lead to more courses being offered in the future. Bill Husin VK3YHT and Albert Stevens VK3EFO gave a presentation on amateur radio to one of the district SES groups. The SES group had observed the club operating portable in the John Moyle Memorial Field Day. As a result of this, they wanted more information about the

activities of amateur radio operators. Our group of retired members, who meet on a Wednesday, have also been out and away from the clubrooms. On more than one occasion, they gave their time to a local charity organization who build and donate computers for those not fortunate enough to be able to a fiford a new computer system. The group has also been behind bars. They have reconstructed the wireless in the "Old Geelong Gao!". During the 195% and 60s, a two channel wireless station was available for the entertainment of the prisoners. This was not wireless in the true sense, as each cell was hard wired to a main radio room. The station was operated by one of the inmates and offered music and "local" news. The interesting thing about this project is that it did not cost anything. All material and equipment used for the project was either sourced from the very large GRES junk box or was donated by members. Most of our members are also members

of WICEN. These WICEN members supplied communications for the annual Orway Classic Bike ride. This is a 160 km ride through the Otway Ranges and also along the historic Great Ocean Road. Entrants pay a fee to participate and all money raised is donated for heart research. Fortunately, there were no incidents during the ride and all message handling was of a routine nature.

Once again this year, a group of Girl Guides came and used our workshop facilities. The evening was organized by John Collins and the girls constructed a small one transistor FM transmitter. This evening was one of the girls' activities nights. It was interesting to see how easily they learnt to solder proficiently. John was assisted on the night by Keith VK3XKS and Rod VK3AYQ.

Rod Green VK3AYQ

During November, we were given a presentation on electrical interference in cars by Bob Tait VK3XP. This was the same presentation that Bob had recently given at GippsTech. Bob had been our guest speaker on one other occasion and both times his talk was not only entertaining but also extremely educational. We were indeed fortunate to have Bob, as he had to make the journey to our club from Melbourne and then drive home again. The round trip duration is over two hours.

Our informal Christmas break-up was held at the new home of Neil Hancock VG3XNH and his wife lenny. Neil and Jenny have a small country property about 20 minutes drive out of Geolong, Members and their families enjoyed a barbecue lunch in a very relaxed atmosphere. This was a pleasant way to finish the year. The club has a break from meetings over the Christmas New Year period until normal meetings resume in mid January. The club meets at 237 a high St. Belmont, Geolong, on Thursday evenings at 2000 local time. Visitors are always welcome.

VK6 QSL Bureau

Following the previous 2 years' survey of the overall bureau activities, here are the 2006 figures added to those of 2004/2005. With the propagation in the doldrums, QSLing activity is at a low point. If it were not for the big world wide contests, the QSL card count would no doubt be very low.

INWARDS 2004, 11798 cards; 2005, 11170 cards; 2006, 10441 cards

OUTWARDS 2004, 6356 cards; 2005, 3430 cards; 2006, 3661 cards

The following is a synopsis of the incoming QSL cards to the VK6 bureau. Listing in some order is the country by prefix, number of deliveries for 2006, and the numbers of cards received.

4 X / 1 / 8 8 . . 9 A / 1 / 3 6 0 . . 9 K 2 / 1 /

VK6

3.9V1/2/27.BY/1/7.CT/1/160. DL/31545.ER/1/55.G/2/211. HA/1/62/.HB9/1/130.HL/1/495. LY/1/38.LZ/1/35.OE/1/50.OH/1/260. OK/2/465.ON/PA/4/410.OZ/2/88. SS/1/91.SM/1/96.SP/1/33.TA/1/9. UA/4/1156.UR/1/596.YE/3/163.

There were other very small deliveries from individual amateurs who bypassed their bureau.

Some cards arrived from a bureau that was the first delivery for three years, and many others were two years old. Also remember that the bureau would have been collecting the cards for some considerable time before despatching the packet.

The Sunspot Numbers chart, as published in AR magazine, indicates that the curve is now near the bottom of the cycle and from 2007 should gradually rise (WE HOPE). It will be interesting to follow the curve and relate it to QSLing activity. Will it follow the curve?

With the increase in the number of amateurs via the Foundation licence and the subsequent upgrades, the bureaux will see an increase in QSL activity?

It is an unfortunate fact that some amateurs are not WIA members and many cards arriving into the bureaux are left unclaimed. From the experience of the VK6 Bureau manager, approximately one third of the cards are for non-members.

28 July 146NE.

73 Neil VK6NE, VK6 QSL Bureau Manager.

News from...

VK5

Adelaide Hills Amateur Radio Society

Mid-November saw the AHARS Buy and Sell - the time and place where amateurs from Adelaide and the surrounding areas come to meet each other, and we hope, to find some bargains.

There were several traders with new equipment as well as many tables of "my junk is your treasure". There were two door prizes, so two people went home

with unexpected goodies.

Darcy VK5RJ, the real 'old-timer' featured in the December issue of AR. was there with a box in his hand (his XYL had threatened dire consequences if he bought anything, but he must have been prepared to face those!) and new Foundation licensees (new-timers?) too numerous to count had boxes and bags of goodies, too.

The queue outside before we started was as long as ever and the hall was crowded, but no-one complained.

AHARS also had a successful Christmas Dinner on December 6th and will have a Club Barbecue in the middle of January.

After that, we get back to normal with meetings at the Belair Community Hall on the third Thursday of each month. Meetings start at 7.30 pm officially but there are usually people around before that. The speakers are heard first. There are usually some odds and ends on a table at the back of the hall. These are available for whatever you like to give to the Treasurer, as gifts to the club.

All lectures are filmed and copies are available on DVD on application.

Visitors are always welcome. Please contact the President Jim VK5NB or look on the website for more information

A Frequency Counter Project

In November 2006, AHARS had a construction night conducted by Graham VK5ZFZ.

These are always interesting and well run. Graham brings along all the components, explains what we are to do to make the device and wanders around making sure we have no problems.

He also usually has a testing station set up to use when the device is completed. The testing station this time was an old computer into which you plugged your



Simple frequency counter (C)2006 Graham Dicker US my signals may take some time to measure ПППП

The results as they appeared on the screen of the computer

Christine Taylor VK5CTY

completed board, when, lo and behold, some numbers appeared on the screen to show that you were counting!!

The photos show the amount of interest the project generated. All participants, (over 60 of them) from the oldest to the youngest, or most recent, had their heads down and eyes focussed.

What is more, most of the completed counters did just that, they counted.

We were told that the counters could be put to use at home as well as just on this night.

Thanks for another interesting night, Graham.





Sasi VK5SN and his YL, May VK5FMAY

JOHN MOYLE MEMORIAL FIELD DAY 17/18 MARCH

Contests

Phil Smeaton VK2BAA

Contest Calendar	for Februa	ry 2007 –	April 2007
------------------	------------	-----------	------------

Feb	3/4	Mexico Intl. RTTY Contest	(RTTY)
	10/11	CQWW RTTY WPX Contest	(RTTY)
	10	Asia-Pacific Sprint	(CW)
	10/11	RSGB 160 Metres Contest	(CW)
	17/18	ARRL Intl. DX Contest	(CW)
	23/24	Russian PSK WW Contest	(PSK31)
	24/25	CQWW 160 Metres Contest	(SSB)
Mar	3/4	ARRL Intl. DX Contest	(SSB)
	10/11	RSGB Commonwealth Contest	(CW)
	17/18	John Moyle Memorial Field Day	(CW/SSB/FM)
	17/19	BARTG RTTY Contest	(RTTY)
	17/18	Russian DX Contest	(CW/SSB)
	24/25	CQWW WPX Contest	(SSB)
April 7/8	Marconi Contest	(CW/SSB/RTTY)	
	7/8	SP DX Contest	(CW/SSB)
	7/8	EA WW RTTY Contest	(RTTY)
	8	QRP Hours	(CW/PSK31/RTTY/SSB)
14/15 14/15 21 21 21/22 28	14/15	Japan Intl. DX Contest	(CW)
	14/15	Yuri Gagarin Intl. Contest	(CW)
	21	Holyland DX Contest	(CW/SSB)
	21	TARA Skirmish Digital Prefix Contest	(PSK)
	21/22	YU DX Contest	(CW/SSB)
	28	Harry Angel Sprint	(CW/SSB)
	28/29	Helvetia Contest	(CW/SSB)
	28/29	SP DX RTTY Contest	(RTTY)

A somewhat belated Happy New Year to all for 2007.

Year to all for 2007. Stairway to Ham

Heaven

This isn't a tribute to Led Zeppelin. It's not an entrance facility to the final resting place for deceased porcine and it's definitely not the name for a non-Kosher butcher's shop either! The title of Ham Heaven has been proudly bestowed by the Northern Corridor Radio Group on their premises located in Whiteman Park, Perth.

Having had the privilege of visiting the group in November for the 2006 CQWW CW contest using the callsign VK2BAA/6, I'd say that this is highly appropriate nomenclature for the venue, as the group members have been busily putting together a set-up which falls very neatly into said category. But first, a bit of history on the group:

The Northern Corridor Radio Group was formed 20 years ago by an enthusiastic group of amateur radio operators, located in the expanding residential northern corridor of Perth. There were no clubs or premises that would satisfy the local amateurs' aspirations to be found anywhere in this area at that time, but the locals craved premises in which to socialise, hold meetings and have an operational club radio station. Anyone was welcome to join the group, which had membership with interests covering many aspects of amateur radio's broad church fotoise. At that time, a local college was

conducting amateur radio courses and awas sympathetic to the group's request for a room for two nights a month for meetings and discussion. For many years and the group was happily accommodated in the college and the operation of the station on was enhanced by the erection of a 20 m mast within the college grounds. With the group conducting Amateur Radio of the station of the college from the college grounds. With the group conducting Amateur Radio in the symbolic arrangement continued for many years up until the college, was sold a few years ago and the group had to vacate the premisses.

The search for another suitable location proved fruitless for almost two years, but then a contact was made with a local Pony Club which had a lease as part of the Equestrian Centre at Whiteman Park

in Perth. Negotiations took place and two years later, the NCRG has almost completed the project.

And what a project it has turned out to be. The members have managed to build a new club venue housing meeting areas, radio operating rooms, a kitchen, workshop, office and a storage room. Even a parking area for 25 vehicles, along with a water supply, power and fencing has been installed.

The ultimate driving force was a desire to be remote from any residential areas so as to have no possibility of causing domestic radio or TV interference problems and have no restrictions on the building of radio masts. Any work carried out requiring a licensed person was performed by a club member holding the required qualifications – saving a fortune in the process!

Ham Heaven features one self supporting mast, a tapered steel mast of 20 metres and two windmill stands, 20 metres and 8 metres high. Radio rooms I and 2 are painted and carpeted, lighting provided, power points installed and each room has a split unit A/C unit along with the all-essential antenna and rotator cables in place.

After all this hard work and effort, the group now has an almost fully functional club house. Meetings take place twice a month and the Sunday morning working bees and socialising have strengthened the group membership. The VK6 radio relay broadcast of the Wireless Institute's News now takes place from the group's station, using the callsign of VK6ANC.

Members often operate the radio equipment and enjoy aspects of Amateur Radio which may be denied at home because of Council restrictions on antennas or supports—and even neighbour issues for perceived visual or television reception reasons.

reception reasons.

The obvious question that you might be asking yourself at this point is "How on earth can they afford all this hardware? Are they all rich?" The answer is "No"; they're not millionaires and they don't have a "Sugar Daddy" wealthy benefactor either. The group have had a modicum of luck in making the right contact at the right time and a large helping of commos ense in getting their act together. As a group, they spend many hours working at a weekend on various projects and use their networking skills to acquire mate's rates for materials and labour. They are a

prime example of what can be achieved when like-minded people group together and pull in the same direction.

The reason I've featured the group in this column is quite simple. The group participates in both international and interstate Radio Contests and often plays host to visiting amateurs such as myself. Bernd VK2IA operated in the 2006 CO WPX CW Contest from the group shack using the callsign VK6AA, for example. The group has far-reaching aspirations in this direction, with thoughts turning to Multi-Multi (multiple operators using simultaneous multiple transmitters) type of configurations to enable VK to be represented in this category in international contests such as COWW. with consummate ease. The NCRG already have plans for a further tower and have embarked on a directional antenna system for LF. There have previously been successful ad-hoc groups in this category (a team from VK entered COWW SSB in 2006 in the M/M section - very successfully) but I'm not aware of any stations utilising facilities such as this of a permanent nature within this category, with plans for further expansion. Maybe you know better and can let me know? I'd be delighted to feature similar contest groups in AR.

From first-hand experience, and if you find yourself in the general area, I can recommend that you make contact via the group website http://www.ncrg.org. au and arrange a visit. I'm sure that you won't be disappointed. As an aside, if you have a spare beer fridge then please get in touch with the group, as theirs shuffled off this mortal coil during the November contest, no doubt due in part to the vast quantity of stubbies I loaded into it. As all guest operators should do, I made a donation to the group funds upon my departure to cover electricity etc - but the cash might need to go towards a new fridge! Vale fridge.

Spring VHF-UHF Field Day 2006 Results

The results and write-up for the Spring Field Day are published in this month's AR. It's great to see a good turn-out for the contest, with some impromptu operations of some bands reaping rewards for the brave and some increased activity arising in various areas of VK. The Summer Field Day usually attracts even more onto the

bands, so it all bodes well for summer - unless of course the occasion is spoiled by fires. Why not have a go next year, as either single or multiple operator? See if a few others at the local club fancy submitting an entry—the contest manager John VK3KWA would be delighted to hear from you.

Additional BERU information – The VP8GQ Trophy

Building on the BERU/Commonwealth Contest information published last month, an additional award has been amounced. With the intention of stimulating some new interest in the Commonwealth Contest, the VP8GQ Trophy will be presented to the highest-placed non-UK station (who has not won the trophy in the preceding two years) in the 12-hour category, regardless of section, Open or Restricted. This award takes the form of an attractive wood mounted plaque and will be retained by the winners. This trophy has been made available through the generosity of Peter Hobbs G3LET.

Commonwealth Traveller Award

A special "Commonwealth Traveller" certificate will be awarded to the highest-scoring entrant who operates from a Commonwealth Call Area which was not active in the previous year's (2006) event. At the discretion of the RSGB HF Contest Committee, additional "Commonwealth Traveller" certificates may be awarded to entrants from especially inaccessible Call Areas.

Century Club Special 70th Award

This new award is a special promotion to coincide with the 70th Anniversary of the Contest and the inaugural Commonwealth Team Competition. It is available for 2007 only, It may be claimed by any licensed radio amateur having contacted a minimum of 70 (Seventy) Commonwealth Call Areas on the current list between 0001 UTC Ist January 2007 and 2359 UTC 31st December 2007.

Full details of these awards and a useful checklist are available at www. beru.org.uk, or contact the organisers via g3pit@btinternet.com.

continued next page





Your humble scribe during the 2006 COWW CW contest at NCRG Photo: VK6HZ

(Left) The Northern Corridor Radio Group Clubhouse, showing the tribander at 20 metres and the all-essential BBO area. Photo: VK6NF

CDECIAL DILV VY-150 2m H/H only \$249.00

G&C OMMUNICATIONS

Authorised dealer for . Icom . YAESU . Kenwood . Barrett RFDS . GME Electrophone . Uniden

0.4500

See us for CAR Stereo too! ~ 'Cranbourne Car Sound'

ICOM (Aus.) TRANSCEIVERS

Antenna Tuners



2 YEAR ICOM (Aust.) Warranty! Full Product Range Available! **

Full range of Communications/Scanner Receivers available from Icom, Uniden, Yaesu \$ POA

HF Vertical Rase Antennas Comet CHA-250Bx 2.8~57MHz \$599 Diamond BB7V 2~30MHz \$499



MF.J-949F MF.I-929 More Details on Website

Antenna Rotators G450A (shown) G-1000DX0 G-800DXA

TE series EMTRON HF ANTENNAS Australia wide orders welcome Credit card Cheque Money order

VAESII Transceivers FTDX-9000DA Flite HF Base

\$16.400 FT - 897D HF - 70cm \$1,399 FT - 857D HF - 70cm \$1,399 FT - 817ND HF - 70cm \$1,049 FT - 8900R Quadband \$ 799 FT - 8800R Dualband \$ 699 FT - 7800R 2/70 Mobile \$ 469 FT -1802M 2m 50W Mob\$ 299 FT - 60R2/70 H/D H/H \$ 369 VX2R 2/70 H/Held \$ 329 0 3 VX-6R 2/70 H/Held \$499 VX -7R Tri-Band H/Held \$599 VX -170 2M Rugged H/Held \$279 VR-5000 Receiver \$1,199

0.00

ᇹ

š

5

str

3

\$499

VR-120D H/H Receiver \$ 289 3 YEAR AUSTRALIAN WARRANTY Call in and see our range of power

supplies, cables and connectors

Comet & Diamond Antennas & Accessories

207 High St. Cranbourne VIC 3977 Ph: 03 5996 3298 Fax: 03 5995 0184 Email: gccomm@bigpond.net.au www.gccomm.com.au

VR-500 H/H Receiver

John Moyle Memorial Field Day

The John Moyle Memorial Field Day is due next month, so why not take a leaf out of the Westlakes Club's book and have a go - if the fires permit of course.

Westlakes won the HF/Open section last year as VK2ATZ/P and made a weekend of it by setting-up their equipment near Woodberry, near Maitland. The club gathered together sufficient equipment to make the entry and by their own admission, a huge amount of expensive hardware is not required to be competitive and win the contest. Tenacity, skill and operator BIC (Bum In Chair) is what's required to enable an excellent placing and to have fun with a group of likemided friends. Jessica, VASFIES took part in the contest, helping to amass the winning score for the Tean. I hope vou

enjoyed the contest Jessica and will be back for more contest fun soon.

If you have any contest related material for inclusion within the column, topics that you'd like covered or even some experiences and pictures you'd like to share, then please feel free to get in touch via vk2baa@wia.org.au. See you on the

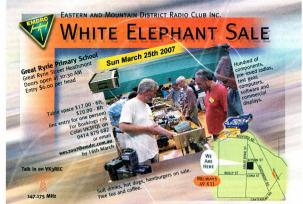
73 de VK2BAA Phil Smeaton



Westlakes Club VK2ATZ/P HF/Open section winners: Allan VK2JED, John VK2FJKD and Paul VK2BPL in the heat of battle during John Moyle Contest Photo: VK2BPL



operate Westlakes Club station VK2ATZ/P during John Moyle – showing the Team how it's done! Photo: VK2BPL





Picture 5: Westlakes Club VK2ATZ/P HF/Open section winners, station equipment. Photo: VK2BPL

CQ WW 160 Metre CW Contest 200 Results

(VKs only\Call\Score)

VK6DXI	3,587
VK3IO	2,240

The Commonwealth Contest 2007 – the Australian team needs you!

The RSGB's Commonwealth Contest is one of the oldest radio contests in existence, having been first run back in 1931 when it was known as "British Empire Radio Week" and lasted for six days!

All those countries that were part of the great family of the British Empire — including Australia, of course — were mivited to participate. While the Sun set several decades ago on the Empire and the colonies are long gone, strong ties still exist between the countries that once were all coloured pink in atlasse, as a sign of their being ruled by the Queen or King of England.

British Empire Radio Week metamorphosed into the 24-hour British Empire Radio Union or BERU (pronounced berroo) contest in 1935 [1], with the objective of linking all those baving an interest in amateur radio within the Empire. In 1976, BERU morphed into the Commonwealth Contest, substituting the Commonwealth for British Empire, but with the spirit of the original objective intact.

It seems to me that this spiritual objective survives to this day – and is one of the main attractions of the Commonwealth Contest for me – which sits alongside the Australian Remembrance Day Contest as my favourite radio events.

As an ardent Australian republican, I find it is quite amusing to have developed such a strong affection for an event that some regard as a sort of colonial hangover. The reason is that for me the Commonwealth Contest stands for everything that is good about being part of a big family – friendly exchanges, mateship and a fierce rivalry that never tips over into antagonism.

By Steve Ireland VK6VZ

Once you have taken part in a Commonwealth Contest - in which centrants use Morse code - you seem to lecome part of the family. The next year, some of the regular operators greet you by name - a pretty weird event in the breakneck speed world of CW contests and more operators seem know who you are and offer a greeting.

The event also has something in it of the game of cricket – a contest of strategy, rather than just brute force (high power and huge antennas). Sure you can sit on a frequency and blast away in a manner akin to Adam Giletrist, but you aren't going to place very high unless you engage the grey matter and do some elegant Ricky Ponting-esque bonus-point chasing and band changes.

There is a saying that in order to know where you are going, you have to know where you have come from – and in the case of Austrialia, Canada, New Zealand, the West Indies, India and Pakistan, we all owe our existence (rightly or wrongly) to the Commonwealth. Whatever Aussies, Klwis or Canucks or other people who live in a Commonwealth member country feel about the past, we can do battle with the mother/father country at cricket or in the Commonwealth Contest – and give 'em a good friendly hiding if we can.

This year, the Commonwealth Contest



Picture 6: Steve Ireland VK6VZ plus his daughter, Hannah and son, Sam. Behind VK6VZ can be seen the Panda Cub transmitter used by famous Commonwealth Contester, the late Derek Ritson GSRI

has a new team section, which should give a whole new twist to these traditional rivalries. The format of this team contest will follow loosely that of the 2007 Cricket World Cup, which is being held around the same time, with teams from the United Kingdom, Australia, New Zealand, Canada and the Indian subcontinent. Hopefully, winning the team section will become the radio equivalent of taking home the World Cup cricket trophy.

Full rules for the Commonwealth Contest 2007 can be found at: http://www. contesting.co.uk/hfcc/rules/rberu.shtml

- I (VK6VZ) have been given the job of coordinating the Australian team entry and, on the first day of the Ashes, passed on the names and callsigns of the 14-person squad to take part in the 2007 event to the RSGB. Our squad consists of.
- 1. Les VK4BUI
- 2. David VK2NU
- 3. John VK4EMM
- 4. Alan VK8AV*
- 5. Barry VK2BJ
- 6. Mike VK6HD
- 7. Russ VK4XA
- 8. Kevin VK6LW
- 9. Phil VK2BAA
- 10. George VK4XY
- 11. Bernd VK2IA*
- 12. Rob VK6HG
- 13. Alan VK6BN
- 14 Steve VK6VZ The asterisked members of our squad

are those who may not be able to take part owing to personal circumstances, but hope to be available. Rob VK6HG has offered to be our "12th man", as he has only a few low antennas, lives behind a big hill and runs QRP, but we are delighted to have his company and great Aussie spirit.

As with the current Australian cricket side, we are an interesting blend of experience and even more experience and are quite happy to be known as "Dad's Army". Our team motto is: "Too old, too slow, too good."

In order to make the best possible score, it is important for each member of the Australian squad to work as many "bonus stations" as possible. Each Australian state counts as a separate call area for the contest on each band, and the first three contacts we make with each Australian state other than our own on each band each earns us a vital twenty bonus points.

What this rather confusing statement means in practice for a VK6 station is that each of the first three contacts with VK5 on each band is worth 60 bonus points. If you multiply this by five bands, as the contest covers 80, 40, 20, 15 and 10 m. this means that contacts with the state next door alone can be worth 300 points - a huge amount in the Commonwealth Contest.

On this basis, if as many Australian amateurs as possible can get on in the Commonwealth Contest and help the team out by working them on as many of the HF bands as possible, that would help us to beat the Poms, Kiwis and Canucks, and all those others.

Please help us to win the Commonwealth Team Contest. You might also have a lot of fun too!

For those who would like to enter, there is a brilliant free software program called SDC, which has been written by Paul EI5DI especially for the Commonwealth Contest. This runs under Windows and can be downloaded from: http://www. ei5di.com/sd/sdcsetup.exe

See you in the Commonwealth Contest

2007, I hope - and "Go Australia" in the Cricket World Cup!

Websites

Commonwealth Contest rules at: http://www.contesting.co.uk/hfcc/rules/ rberu.shtml

Call areas for the contest are listed at: http://www.contesting.co.uk/hfcc/ information/codes.shtml

There is some general Commonwealth Contest information at: http://:www.beru. org.uk.

References

[1] Reflections in a Rosebowl - a history of the Commonwealth Contest from 1931 to 1996. By Bob Whelan, G3PJT. Published by Lambda Research, 36 Green End, Comberton, Cambridge CB3 7DY.



Email fieldday@ccarc.org.au

Spring VHF-UHF Field Day 2006: Results

Call Location 1296 2.4 Name GHz GHz GHz GHz Section A: Single Operator, 24 Hours VK40E Doug Friend QG61, 62, 63 76 483 550 720 330 - - - 1609 VK1DA Andrew Davis OF44 45 498 VK4JMC John McPherson OG62 50 444 1044 VK1PWE Scott Whitton OF44 53 501 215 769 VK4DMC Dale McCarthy OH32 41 294 420 VK2EAH Andy Hood OF57 180 350 VK1DSH Dale Hughes QF44 117 Section B: Single Operator, 8 Hours VK3IH Paul Stampton QF21, 30, 31 44 430 - - - - -825 VK4DMC Dale McCarthy OH32 35 235 462 VK2GG Dan Joyce OF56 - - 210 - 210 VK2TRF Jack Swart OF56 - - 210 - 210 -VKSZLIC Andrew Russell PF94 230 - - - - - -413 VK2EAH Andy Hood QF57 170 - - - - -314 PF95 VK5UE Colwyn Low Section C: Multi Operator, 24 Hours **VK3UHF** (1) OF21 81 567 820 736 560 - - 220 2984 VKSOM (2) OF03 70 483 775 2104 VK4WAT Tableland REC (3) QH22 131 465 585 1569 VK2AES (4) OF45 50 597 550 304 1501 QF44 VK1BL 78 603 620 1301 VK3JTM **QF12** 23 246 405 - - - - 1042 VK5ZUC (7) PF94, 95 291 295 168 754 Section D: Multi Operator, 8 Hours VK3IDI. (8) OF12 34 183 295 1280 VK3JTM OF12 23 246 405 VK5ZUC (7) PF94, 95 198 215 168 is consideration and the greatest 581 VK3FRC FAMPARC (9) OF21 237 567 Section E: Home Station, 24 Hours VK3AAK Michael Coleman QF21 468 1509 OF13 48 VK3YLV **David Timms** 297 430 1063 VK4TJ John Kirk OG52 37 258 335 886 VK2DAG Matt Hetherington OF56 66 342 465 873 VK2KOL Colin Hadland QF56 393 VK4FNQ John Goldfinch QG39 56 381 VK3UDX Geoff Beadle QF22 23 174 230 611 VK4AO **Boss Anderson** OH32 68 228 536 VK1W.I Waldis Jirgens OF44 50 177 477 VK2EI **Neil Sandford** OF68 249 354 VK3AJR Andre Jones QF21 132 125 - - - - -257 (1) Chas. Gnaccarini VK3PY, David (4) Andy Sayers VK2AES, Russell (8) Ian Lloyd VK3IDL, Ian McDonald Learmonth VK3QM. Manning VK1JRM, Sean Barwick VK3AXH.

- (2) Jim Bywaters VK50M, William Day VK3LY, Bruce Farmers VK3AQX.
- (3) Tableland Radio & Electronics Club: John Roberts VK4TL, Dave West
- VK4ADW, Ulf Larsen VK4TUL, Trevor Gregory VK4ZFC, Jeff Cochrane VK4BOF.

44

- (SWL). (5) Ted Garnett VK1BL, Greg Parkhurst
- VK1AI.
- (6) Tim Morgan VK3JTM, Dylan Cator VK3JWC
- (7) Andrew Russell VK5ZUC, David Clegg VK5AMK.
- (9) Frankston & Mornington Peninsula

Contest manager: John Martin VK3KWA

ARC: Roy Seabridge VK3GB, Gerard Werner VK3GER, Ed Parsons VK3GD, Kim Day VK3FDXX, Brian Rich VK3VBJ.

Comments

One interesting feature of the Field Day was the large number of entrants who haven't sent in a log before. The patterns of activity were different too - some entrants reported less activity than usual. while others reported more. It seems that the main hot spots of activity this time were south-west VK3, VK1 and surrounding areas, and also northern VK4. There were no reports of unusually good propagation.

Not long before the Field Day, I made a request for entrants to avoid DX calling frequencies where possible and make use of the recommended contest frequency (.150 on each band) instead. It was disappointing to see a fair few 59 contacts logged on frequencies like 144.100. I don't want to totally prohibit the use of such frequencies unless necessary, but strings of 59 contacts on frequencies like 144.100 aren't in the spirit of the rules!

Some comments from the loas:

past contests because, for the first time in years, we had four field stations in

the VK1 area plus some home stations. This increased the activity level and

made the weekend much more rewarding - it's much more fun when there are plenty of contacts to be had. Radio conditions to the southwest (generally the Melbourne direction from Canberra) were disappointing ... To partly make up for that we had some excellent signals in from north east, with many contacts into Sydney, the coastal areas north and south of Sydney and contacts further north to Forster on 144 and 432 which were very welcome. - VK1DA

I was surprised by the level of activity here around VK1. Also for the first time there was some SSB activity on 52 MHz. probably sparked by one field station's inability to use the lower band segment. - VK1WJ

It provided an impetus for me to get an antenna operational on 23 cm, which resulted in 12 contacts, 3 grid squares and over 25% of my final tally. - VK3AAK I was pleasantly surprised by the level

of support semi-locally for this contest. At the last minute, I got a Yagi half way up the tower for 1296, which resulted in some points and a couple of new grids for me on that band. - VK4TJ

ar

Australian Radio **Industries Ptv Ltd**

Service to Industry, Commercial, Amateur & CB Radio Applications

ULTRAFLEXIABLE COAX

. COAY SEALING PRODUCTS

Specialists In

· RG SERIES COAX HELIAX CORRUGATED HARDLINES WAYEGUIDES & SEMI-RIGID

· HI-TEMP TEFLON COAX . 450 & 300 OHM TWINFEEDERS ALL COAXIAL ADAPTORS MULTI-CORE CONTROL CABLES . ALL COAX / HARDLINE CONNECTORS

- ENAMELLED COPPER WIRES HARD & SOFT DRAWN COPPER WIRES INSTALLATION ACCESSORIES & EQUIPMENT CERAMIC AND PYC INSULATORS · DACRON HV BORES FLAT EARTH BRAIDS

 MOBILE & FIXED ANTENNAS - Cb & Amateur CABLE ASSEMBLIES DIPOLE & WIRE ANTENNAS · LIGHTNING PROTECTION & EARTHING Current Prices on various items !

 TIMES LMR400-\$4.50/m ● TIMES LMR600-\$8.95/m
 ARI RG59B/U-\$0.80/m ● 300 obm Laddedine-\$1.50/m 450 ohm Ladderline from \$2.80/m €8 Core Control/ Rotator cable-\$2.70/m Dacron UV/Rot proof rope 3mm -\$0.65/m 5mm -\$0.85/m

 Scotch 23 Self Amalgamating tape-\$20/roll W2AU Hi Power Antenna Baluns from-\$50 W2DU Hi Power Antenna Baluns from-\$60

All Coax CONNECTORS & ADAPTORS for any cable available @ ARI all at wholesale prices ROJONE 12dBi 477Mhz vertical-\$250.00

ANTRON 99A 24-30Mhz vertical-\$229.00 YAESU ROTATOR DEALS G450A-S599.00 • G-800DXA-S895.00 • G-100

-\$1000.00 • HYGAIN AR35 Light duty - \$190.00 All Yaesu & HY-GAIN rotators available

ARI RG213/U MIL-C-17D-\$180.00/100m

• ARI RG58C/U MIL-C-17D-\$60.00/100m

• LDF5-50 7/8" HELIAX-\$9.95/m • LDF4-50 1/2" HELIAX-\$4.95/m

 2.00mm HD COPPER WIRE-\$35/kg ● 1.60mm HD COPPER WIRE-\$35/kg COAX SEAL PUTTY-\$6.50/roll SO-239 Dipole centres-\$20.00 450ohm Dipole centres-\$20.00

 Fiberglass 5/8W 146Mnz Mobile Antenna-\$16.00 Stainless 5/8W 146Mhz Mobile Antenna-\$35.00 Fiberglass 4.5db 70cm Mobile Antenna—\$12.00

 Stainless 4 5th 70cm Mobile Antenna, \$15.00 All ANTENNA INSULATORS - 10% OFF

All FIXING ACCESSORIES - 10% OFF Many different antennas for HF, VHF, and UHF will be available this year from ARI · YAGIS · QUADS · VERTICALS · WIRE ANTENNAS

HEIL MICROPHONES CLEARANCE ITEMS KENWOOD TRAVELLER HEADSETS-\$160 ALL various adaptor cables for Prosets and Gol

series mics from-\$25 DAIWA SWR METER CLEARANCE SALE"

CN-103L VHE/UHF-\$209 NOW \$165.00 CN-801V VHF/UHF DELUXE-\$329 NOW \$260.00 AMERITRON LINEARS & RCS UNITS

AL-811AX 600W-\$1300
 AL-811HX 800W-\$1699
 AL-572X 1300W-\$2100
 AL-90BX 1000W-\$1995

 AL-1200X 1.5KW-\$3299
 ALS-500MX 500W Mobile-\$1399 All Ameritron & Mirage Amplifiers to ORDER!

ALL HY-GAIN ANTENNAS AVAILABLE! AUSTRALIA'S CHEAPEST

MFJ, AMERITRON, MIRAGE, HY-GAIN DEALER GUARANTEED I

Office: (02) 4862 2110 BH FAX (02) 4869 4424

sales@arindustries.com.au www.arindustries.com.au

This VHF field day was different from

Healesville Amateur Radio Group Inc. C/o P.O. Box 346, Healesville, Vic. 3777



Sales of pre-loved Ham equipment. components & computer gear

Healesville Memorial Hall Maroondah Highway, Healesville

> Ample parking, \$5 entry Open to Traders at 8.30am

For booking of trestles and further information: Gavin VK3TLN 03 5968 8482

> Steve VK3TSR 0418 103 487

email: hamfest@harg.org. website: www.harg.org.au Bring your family—you can also visit Healesville's

famous tourist spots

John Moyle Memorial Field Day Contest **Rules 2007**

Presented by Denis Johnstone (VK4AIG/VK3ZUX)

17 - 18 March, 2007 0100 UTC Sat - 0059 Sun

I wish all entrants good luck, and look forward to hearing you on air during the contest! N.B. new email address: jmfd2007@wia.

org.au and/or check out latest info at http://www.wia.org.au/contests/.

Overview

1. The aim is to encourage and provide familiarisation with portable operation, and provide training for emergency situations. The rules are therefore designed to encourage field

- 2. The contest takes place on the 3rd full weekend in March each year, and runs from 0100 UTC Saturday to 0059 UTC Sunday, 17-18 March 2007
- 3. The contest is open to all VK, ZL and P2 stations. Other stations are welcome to participate, but can only claim points for contacts with VK. ZL and P2 stations.
- 4. Single operator portable entries shall consist of ONE choice from each of the following (e.g. 6 hour, portable, phone, VHF/UHF):
- a 24 or 6 hour;
- b Phone, CW, or All modes: c HF. VHF/UHF or All Bands.
- Multi-operator portable entries shall consist of ONE choice from each of the following (e.g. 24 hour, portable,
 - phone, VHF/UHF): a 24 or 6 hour:
- b Phone, CW, or All modes:
- c HF, VHF/UHF or All Bands. 6. Home and SWL single operator entries may be either, 24 hour or 6 hours, all modes, all bands.

Scoring

- 7. Portable HF stations shall score 2 points per QSO.
- 8. Portable stations shall score the following on 6 m:

- a 0-49 km 2 points per QSO h 50-99 km 10 points per QSO:
- c 100-149 km 20 points per QSO d 150-299 km 30 points per OSO e 300-499 km 50 points per QSO

2 points per QSO

f 500 km and

greater

- 9. Portable stations shall score the following on 144 MHz and higher:
 - a 0 to 49 km 2 points per QSO b 50 to 99 km 10 points per QSO c 100 to 149 km 20 points per QSO
- d 150 to 299 km 30 points per QSO e 300 km and 50 points per QSO greater 10. For each VHF/UHF QSO where
- more than 2 points is claimed. either the latitude and longitude of the station contacted or other satisfactory proof of distance such as the 6-figure Maidenhead Locator must be supplied.
- 11. Home stations shall score:
 - a Two points per QSO with each portable station.
 - b One point per OSO with other home stations.

Loa Submission 12. For each contact: UTC time.

- frequency, station worked, RST/ serial numbers sent / received and claimed score. (VHF and above location of other station and distance showing the Lat Long or Maidenhead Locator to 6 figures for the station
- 13. Logs must be accompanied by a summary sheet showing: call sign, name, mailing address, section entered, number of contacts, claimed score, location of the station during the contest, and equipment used, and a signed declaration stating "I hereby declare that this station was operated in accordance with the rules and spirit of the contest and that the contest manager's decision will be accepted as final". For multi-

operator stations, the names and call signs (legible) of all operators must be listed.

14 Paper logs may be posted to "John Moyle Contest Manager,

27 Laguna Ave, Kirwan 4817 Qld". Alternatively, logs may be emailed to imfd2007@wia. org.au, vk3zux@wia.org.au or to vk3zux@hotmail.com or snail mailed via the WIA Contest Manager JMMFD, P.O. Box 2175 Caulfield Junction, VIC 3161. The following formats are acceptable: EXCEL or Microsoft Word, ASCII text or electronic log programs such as VK Contest Log (VKCL). Logs sent by disc or e-mail must include a summary sheet and declaration, but the operator's name (legible) is acceptable in lieu of a signature. Logs must be postmarked no later than 30 April 2007.

Certificates and Trophy

- 15 At the discretion of the Contest Manager, certificates will be awarded to the winners of each portable section. Additional certificates may be awarded where operation merits it. Note that entrants in a 24 hour section are ineligible for awards in a 6 hour section.
- 16 The Australian portable station, CW section, with the highest CW score will be awarded the President's Cup, a perpetual trophy held at the Executive Office, and will receive an individually inscribed wall plaque as permanent recognition.

Disqualification

17 General WIA contest disqualification criteria, as published in Amateur Radio from time to time, apply to entries in this contest. Logs which are illegible or excessively untidy are also liable to be disqualified.

Definitions

- 18 A portable station comprises field equipment operating from a power source, e.g. batteries, portable generator, solar power, wind power, independent of any permanent facilities which is the normal location of any amateur station.
- 19 All equipment comprising the portable station must be located within an 800 m diameter circle.
- 20 A single operator station is where one person performs all operating, logging, and spotting functions. 21 A single operator may only use a
- call-sign of which he/she is the official holder. A single operator may not use a call-sign belonging to any group, club or organisation for which he/she is a member or sponsor except as part of a multioperator entry. 22 A multi-operator station is where
- more than one person operates, checks for duplicates, keeps the log, performs spotting, etc.
- 23 A multi-operator station may use only one call-sign during the contest. 24 Multi-operator stations may only
- use one transmitter on each band at any one time, regardless of the mode in use.
- 25 Multi-operator stations must use a separate log for each band. 26 Logs submitted electronically can
 - use a separate Excel worksheet for each band linked to a summary sheet. A typical example is shown at http://www.wia.org.au/contests/ which can be copied and adapted for the individual use of either single or multi-operators stations.
- 27 A station operated by a club, group, or organisation will be considered to be multi-operator by default.
- 28 None of the portable field equipment may be erected on the site earlier than 28 hours before the beginning of the contest.
- 29 Single operator stations may receive moderate assistance prior to and during the contest, except for operating, logging and spotting. The practice of clubs or groups providing massive logistic support to a single operator is, however, totally against the spirit of the contest. Offenders will be disqualified, and at the discretion of the manager, may be banned from further participation

- in the contest for a period of up to 3 years.
- 30 Phone includes SSB, AM and FM. 31 CW includes CW, RTTY, and

nacket

- 32 It is not expected that any other modes will be used in the contest, but if they are, they shall be classed 33 All amateur bands may be used
- except 10, 18 and 24 MHz. VHF/ UHF means all amateur bands above 30 MHz. Note: On 50 MHz. the region below 50.150 has been declared a contest free zone, and contest COs and exchanges may only take place above this frequency. Stations violating this rule will be disqualified. 34 Cross-band, cross-mode and contacts
- made via repeaters or satellites are not permitted for contest credit. However, repeaters may be used to arrange a contact on another frequency where a repeater is not used for the contact.
- 35 Stations may make repeat contacts and claim full points for each one. For this purpose, the contest is divided into eight consecutive threehour blocks: 0100-0359, 0400-0659, 0700-0959, 1000-1259, 1300-1559, 1600-1859, 1900-2159, 2200-0059 UTC. If you work a station at 0359 UTC, a repeat contact may be made after the start of a new block providing they are not consecutive,

- or are separated by at least five minutes, since the previous valid contact with that station on the same band and mode.
- 36 Stations must exchange ciphers comprising RS(T) plus a 3 digit number commencing at 001 and incrementing by one for each contact.
- 37 Portable stations shall add the letter "P" to their own cipher, e.g. 59001P. 38 Multi-operator stations are to
- commence numbering on each band with 001.
- 39 Receiving stations must record the ciphers sent by both stations being logged. QSO points will be on the same basis as for Home Stations, unless the receiving station is portable. 40 The practice of commencing
 - operation and later selecting the most profitable operational period within the allocated contest times is not in the spirit of the contest, and shall result in disqualification. The period of operation commences with the first contact on any band or mode, and finishes either 6 or 24 hours later

If anyone wishes to contact me privately to discuss rules, my home phone number is (07) 4723 4229, and my snail mail and email address is as shown in the Log Submission section above. Denis Johnstone (VK4AIG/VK3ZUX)

from page 19

Estate Ron VK2ASJ courtesy of Wal Stuart.

Estate Vince Nugent VK2ALZ courtesy of Mrs Frances Nugent.

Estate Jim Swan VK2BOS courtesy of Mrs Helen Swan, (included QSL A5ITY from Bhutan).

Additional OSLs from Jeff VK6AJ: Scotland DL6MHW/MM, IOTA 009, Aland Is. OHONH, France F/ DJ9RR, IOTA 064, Moldova ER2000A (millennium), ER50CE (50 years Council of Europe), German Club DM4E, Azores G300K/CU2, Australian Commonwealth Games AX3MCG and AX3GAMES.

Jim Smith VK9NS on Norfolk Island. Some rare IOTA Europe. EU092 Scotland, EU088 and EU029 Denmark, EU070 France, EU060 Greece, EU083 Italy,

Thanks for contributions to the QSL collection continued

EU150 and EU 040 Portugal, EU160 Russia, EU179 and EU180 Ukraine. Jim is known world-wide through his numerous DXpeditions and has been a contributor for many years.

Mike VK6HD, Sweden Si6, SJ2, 8S4. Mexico 4B7 and 6F1. Latvia YL2000, YL85. Another top DX-er and contributor.

Austrian QSL Bureau, courtesy of Wolf OE1WHC for some rare prefixes. Sweden 8S6, SJ1, SJ2, Germany DP5, Belgium OO175, 75OMG, 7S6, San Marino T72. Spain AN2, Canary Islands EH8, France FQ2, HY2, TH6, TW7 and TW4. Malta 9H9, Italy 107, IS8 (new prefix; first time on the air), Canada VD5, VF6, XN2 is truly a prefix chaser's dream!

More acknowledgements next month.

VHF/UHF - an expanding world

David Smith VK3HZ vk3hz@wia.org.au

Weak Signal

David Smith - VK3HZ

So far this summer, we've had one of the best VHF DX seasons for many years - some say 20 years. On the 2 m band, there have been good openings to ZL, VK6 to VK3 and from VK7 to the mainland far and wide (including VK6). The 2 m Sporadic E openings have been numerous, long-lasting and widespread with several contacts that appear to be double-hop. What more could we want!

Firstly, thank you to all those who sent me reports of their contacts. Unfortunately, there's been so much happening (not helped by the one month break for AR) that I have no hope of reporting it all without earning a stern reprimand (and slash of the red pen) from our illustrious editor. So, I'll try to summarise what's happened and give you the highlights. On 19/11, 2 m opened from VK2's

AWD, FZ and EAH to ZL3TY. On 21/11, Norm VK7AC worked Colin

VK5DK in Mt Gambier on 2 m, 70 cm and 23 cm with 5/9 signals on all bands. On 23/11, 2 m again opened across to ZL

On 24/11, Norm VK7AC worked into the Adelaide area making contact with (2 m) VK5ZLX 5/9+, VK5BC 5/9, VK5AKK5/9+, VK5OM 5/9, VK5ZK 5/9; (70 cm) VK5ZLX 5/9, VK5BC 5/6, VK5AKM 5/2, VK5ZK 5/9, VK5AKK 5/9. The highlight of the day was the 1009 km contact with Phil VK5AKK on 23 cm at 5/9 - a new VK7 23 cm distance record.

On the same day, Mark VK2EMA in central NSW also managed to work into Adelaide, to (2 m) VK5ZLX 5/9+, VK5BC 5/2, VK5ZK 5/9, VK5AKK 5/9; and (70 cm) VK5ZLX 5/9, VK5AKK 5/9,

VK5ZK 5/9.

On 27/11. Wally VK6WG reports working (2 m) VK5NY 5/9+, VK5AKK 5/2, VK5ZAI 5/4, VK5BC 5/5, VK5DK 5/5 VK3AAK 5/1, VK3XPD 5/1 VK3TW; (70 cm) VK5NY 5/8. On 23 cm, Wally was heard by VK5BK. On 2 m, he was heard by VK7AC. The Mt Gambier VK5RSE beacon was audible all day. On 28/11, between 0550Z and 0900Z,

Wally reports hearing VK5RSE on 2 m, 70 cm and 23 cm and VK3RGI (Gippsland) on 2m, 70 cm and 23 cm. Despite numerous calls on 144.1, no contacts were made. Huge signals from VK3 to VK7 - VK3PY to VK7AC S9+20 on 23 cm.

On 7/12, Brian VK5BC reports working VK4FNO.

On 8/12, the Sporadic E openings started in earnest. Phil VK3YB worked ZL1IU 5/1. ZL1BT worked VK3VHF 5/8, VK3ZYC, VK3EK 5/8, VK3YB 5/1 (2616 km), and is heard several times by VK3NX on (very) sporadic E. Jim VK50M with a very modest station (25 W to two stacked halos) worked VK4KAY and VK4BKP, VK5BC worked VK2DAG and VK2ZT.

On 9/12, probably the best contact of the season (so far) when Nick ZL1IU worked Garry VK5ZK and Peter VK5ZLX on 2 m - a distance of 3160 km. Gordon VK3ACC and Trevor VK3VG also both worked Nick. Both of them reported hearing both sides of the VK5/ZL contacts, leading to speculation that the mode of propagation was either double-hop Sporadic E or tropo-enhanced Sporadic E. Trevor reports that he tried 70 cm to Nick, but nothing was heard despite the S9+ signals on 2 m, backing up the theory that Sporadic E was involved, at least to central Victoria. This is the longest distance VK 2 m contact for

many a year. Continuing on the 9/12 (which was a very busy day), Glenn VK4TZL reports working VK7AC 5/9+40, VK5ZK, VK3ZQB 5/9, VK3XQ, VK3AKK, VK3CAT, VK3AMK, VK3DMW. VK3KAQ, VK3KAI and VK7AC again. Norm also worked VK4CP and VK4KK. Russell VK3ZOB reports that he gave up trying to watch TV as there were 3 Ch 2 stations competing for his viewing. On 2 m, he then worked VK4TZL 5/9, VK4WS 5/8, VK4ARN 5/9, VK4ZAA, VK4ARS 5/3, VK2FMB, VK2BA, VK2DVZ 5/9 and VK2FAD 5/9+ at Taree. Ross VK2DVZ reports working VK1, 2, 3, 4, 5, 7 and both islands of ZL. Steve VK2ZT reports the same spread of coverage, with 20 contacts and 22 on the 10/12. VK3VHF worked ZL1IU 5/5. Phil VK4CDI reports working ZL1IU, then 7 VK3s and 1 VK7. David VK2BA reports that he was working VK6s on 6 m and, with the short skip, decided to try 2 m. The band opened strongly to VK3 and he worked 10 VK3s through the only pileup of interstate stations he has ever heard on 2 m. He also worked VK7AC 5/9 - all with his beam towards VK6

Still on 9/12, Andy VK2AES reports working ZL1IU. He then contacted some Canberra stations and, as a result, Ian VK1BG and Rob VK1ZOR both had good contacts with Nick. This is possibly the first opening on 2 m from the VK1 area into ZL for a couple of decades.

On 10/12, tropo was the main form of propagation. On 2 m, ZL3TY worked 13 VK2s and 9 VK3s, VK5ZLX was also heard, Rhett VK3VHF worked ZL3TY 5/5 on 2 m and -23 on 70 cm JT65.

On 11/12, the tropo enhancement had moved and ZL3TY reports working 15 VK2s and 3 VK4s on 2 m. VK2FZ was worked on 70 cm.

On 16/12, Simon ZL1SWW reports working VK2FZ, VK2ARA and VK2BX on 2 m and heard "someone from the Dandenongs" (probably VK3KAQ). On 22/12, another strong Sporadic

E opening, Paul VK3DDU reports working 8 VK4 stations on 2 m. Colin VK5DK worked 7 VK4s, 2 VK2s and 2 VK3s. Steve VK2ZT reports 1 VK3, 3 VK4s, 6 VK5s, 2 ZL1s and 5 ZL3s (over 2 days). Rex VK7MO reports working VK4KDD, VK4WS, VK4ZBH, VK4APG, Vk4ZAA, VK2YO, VK4ADM, VK4EME, VK5AKK, VK5EME, VK5UK, VK5ZBK and VK5ZK. Doug VK4OE reports working VK5BC, VK3KAQ and having a 15 min rag-chew with VK3PY at S9+. Then the skip shortened to VK2AYM (Albury). Then VK3DDU, VK5ZK, VK3DUT, VK3VHF, VK3AMK and VK3WN. After a break, he worked VK7AC, VK5ZAI, VK5DK and VK3ZOB. He also heard VK4TZL (Hervey Bay) work VK7ZIF

near Hobart. On 23/12, another spectacular contact occurred. At 0900Z, Cec VK6AO worked Joe VK7JG on 2 m, in a brief opening, over a distance of 2977 km. This is a new VK6 and VK72 m distance record and it is believed, the first 2 m contact between VK6 and VK7

Still on 23/12 (and the same opening). Colin VK5DK worked VK6HK 5/3 and VK6AO 5/7 and heard VK6ADI 5/6. The opening only lasted about 30 mins and the VK6RPH 144 460 beacon was audible. VK7MO worked (2 m) ZL4LV, ZL4DK. ZL3TY, ZL3NW, ZL3OZ, ZL3AAU, ZL3AIC, Zl3MF and ZL3CU, Murray ZL3MH worked VK1BG and VK2KII

On 25/12, plenty of sleigh-enhancement early morning. Jeff VK8GF worked VK4ARN, VK4CP, VK4APG, VK4JMC, VK4ASB, VK4TJ and VK4AFL. The VK4RTT beacon was S9+ from 0045-01557

On 26/12, Rob VK4TWR reports working VK2GKA 5/9, VK2BXT 5/8, VK3NX 5/3, VK3ACC 5/4, VK2EMA 5/9+, VK3AMK 5/9+, VK3AAK 5/9+, VK3XO 5/5, VK3II 5/5, VK3BBB 5/9 and VK2KRR 5/5

On 2/1/07, Neil VK2EI reports working VK4BOF 5/6, VK4FNO 5/9. and VK4BEC 5/5.

On 4/1, several big E's openings

occurred. A dog pile built up on 2 m, although operation was reasonably orderly with most stations calling on 144.1 but announcing that they were listening on another frequency. Trouble was quite often you would OSY and find the other frequency now in use! There were many OSOs between VK1, 2, 3, 4, 5 and 7 stations - too many to list. The opening lasted for about 4 hours. John VK4FNO reports working 36 stations. 5/1 was a similar day.

Ron VK3AFW reports that he observed 3 E's opening periods - 0030 to 0100Z, 0300 to 0540Z and 0905 to 0908Z. For the VK4s the opening was continuous from 0030 to past 0600Z. VK4 stations that were consistently heard in



NEW! VERTICAL ANTENNA **MODEL NUMBER: VA-71**

Designed for high performance, this light but sturdy antenna is a fantastic alternative for those HF users with small backvards & limited snace.

SPECIFICATIONS

ONLY...

FREQUENCY RANGE: 1.8 to 30MHz* (160 to 10 metres) HEIGHT / ANTENNA LENGTH: 7.1m

RABIATING FLEMENT: Aluminium

MOUNTING: off a building OR a few metres off the ground!!

depends on tuner & connection

OPTIONAL EXTRAS 4:1 Balun - \$80.85 INC. GST

300 O Ribbon Cable - \$0.44 n/m INC. GST 7-100 LDG Autobuner - \$319.00 INC. GST

RUSHCOMM HE ANTENNA MANUFACTURER

DON'T BE FOOLED BY THE NASTY BROADBAND VERTICALS ON THE MARKET - THIS IS THE REAL DEALIS

> RIGHT: The VA-71 installed on a nost a few metres off

info@bushcomm.com PH: (08) 9296 0496 www.hushcomm.com

BELOW: Close-up view of our 4:1 Balun attached to the VA-71 using the supplied brackets



Melbourne included VK4TWR VK4RKP VK4BLK VK4FLR and a Foundation License holder Tom VK4FTDX who seemed to be having a ball. Many other VKAs came and went as the enhancement moved around Gordon VK3ACC on the Murray reports working 13 VK4 stations Trevor VK 3VG in central Victoria reports working VK1, 2, 3, 4, 5, 7 and 8 in the UTC day and had excellent back-scatter signals when beaming west, but no VK6. Steve VK2ZT reports working ZL3FV and VK8GF - both just over 2000 km in opposing directions from him

So, it's been a very lively two months. Honefully there's a lot more to come before the season ends

Microwave

Colin VK5DK reports some interesting activity on the 24 GHz hand:

Russell VK3ZOB at Port Fairy and Trevor VK5NC and myself in Mount Gambier have had our first contact on 24 GHz since we altered the feeds on our

systems. On the evening of November 19th, a check of the VK5RSE 1296,550 MHz beacon by Russell showed a very strong sional at 5x9+ I set up at my portable location on the edge of the crater of the Blue Lake and was able to hear the 10 GHz beacon, located temporarily at Russell's OTH, at 5x9. Russell then proceeded to his portable location in the sands dunes just outside Port Fairy - a distance of just over 200 km. A 5x9+ SSB contact was made on 10 GHz.

We set up the 24 GHz units and Russell transmitted a signal to me but nothing was heard. I then transmitted a signal back to Russell who found me about 40 kHz lower than he expected. After aligning our dishes, we had good 5x9 signals both ways. This is the best signal heard over this path on 24 GHz with very steady

signals over the 30 minutes OSO. Alan VK3XPD reports on some further activity:

On Tuesday, November 28th at 1010Z, the current National VK Record for 24 GHz was extended from 201 km to 230.05 km. Russell VK3ZOB, operating from

the summit of Mt Warrnambool (east of Warrnambool) worked Alan VK3XPD operating from Berwick in the eastern suburbs of Melbourne, Signal Reports were 5x5 both ways.

Our 10 GHz systems were initially used for determining bearings because the "nointing" of our 24 GHz systems is extremely sharp/critical Several other OSOs followed on from this initial record claim with signal reports up to 5x9.

An attempt was made over a longer path of circa 400 km to Colin VK5DK and Trevor VK5NC operating from a cita near Mt Gambier Howaver this proved unsuccessful. It was later found. when Russell and Alan tried again that the propagation had collapsed. This phenomenon occurred within a matter of minutes and is usually the result of rising humidity, which attenuates 24 GHz signals heavily. Station parameters are tripod-mounted

600 mm Dishes fed by transverters which develop a rather modest 500 milliwatts on 24048 1 MHz and 2 metre IEs

The weather condtions prevailing at that time of our record attempt (2110 hours EDST) were fine and calm and coincided with some excellent propagation south into VK7 and west to VK6 on several days prior.

Spring Field Day

As I write this Summer VHF/UHF Field Day is almost upon us. I received a few notes about the Spring Field Day that may be of interest.

It's good to see a bit of activity from the VK1 area with several stations perched on the hilltons. Ted VK1BL reports:

What a fantastic weekend. Thank you to everyone who participated, VK1 and surrounding area saw auite a lot of activity, although things started pretty slowly on Saturday afternoon. It was great to have home stations coming up in support of people in the field, and the tropo duct on Saturday night up the coast was just great for those willing to stay up to Lam Sunday

Gree VKIAI and I had a great time on Mt Coree (OF44ia). We'd planned to camp down in the forest, but the activity Saturday night kept us on the summit where we eventually slept under the stars after closing down at 1 am Sunday. Rain woke us at around 3:30 am but we caught a few hours sleep cramped in the front of Greg's Range Rover until about 7 am ...

Here's for even more fun on the Summer Field Day in January.

Doug VK4OE also had some fun: I. as usual, had a great time operating five bands as a single operator during the recent Spring VHF/UHF Field Day event, but I particularly want to describe the best tropo QSO that I have experienced during such a contest Normally good propagation seems to be reserved for times other than contacts

Farly on the Sunday morning I set up my nortable near on Springhrook Mountain which is just inland from the Oueensland Gold Coast right on the NSW horder (OG61PS) and at 2000 immediately made contact with some Brishane stations. A weak signal coming from the North was evident hehind those strong stations and it was a thrill to discover that it was John VK4FNO in Charters Towers (OG39EX). The ensuing contact at 1148 km was a steady 5x1 to 5x2 without OSR over a few minutes and very satisfying Attempting 70 cm was without success

The weather chart showed a large. long and stable high pressure ridge in the right place to make this contact possible through enabling a coastal duct to form.

A point that interests me about this OSO was that Brisbane stations in elevated locations or with a good take-off to the North, those who can and do occasionally work North Queensland stations when there is a coastal inversion in place, were not hearing John at this time. Propagation at the Southern end was to the 1050 m elevated site where I happened to be. Some other Queensland coastal naths

that have been worked, e.g. Brisbane to Cairns and the Atherton Tableland area. are longer. However, for propagation to occur when operating portable is rather special!

Beacons

A short note from Doug VK4OE to advise that VK4RBB has commenced transmission on 432,440 MHz. 1296,440 MHz and 2403,440 MHz from its permanent location at Murrarie in Brisbane, OG62NM, Transmitter nowers are 8 W. 9 W and 2 W respectively, and each antenna is horizontally polarised and omnidirectional. Reception reports from distant stations would be greatly appreciated to Doug at friends@squirrel. com.au.

The northern Tasmania 2 m heacon VK7RAE – on 144,474 MHz has been put back into operation at a new site on Don Hill near Devonport (QE38DU). It is running 10 W to a Big Wheel antenna, and has been heard several times already in VK3. Thanks to Joe VK7JG and the others involved in the work.

Please send any Weak Signal reports to David VK3HZ at vk3hz@wia.org.au.

Digital DX Modes

Rex Moncur VK7MO

John VK4JMC joined the group and puts out a good signal on FSK441. Peter VK3SO is operational and getting his feet wet by listening in to the activity sessions held from 0700 to 0800 ESDT each Saturday and Sunday.

The procedure developed by the group for working more than one station at a time is working well and has advantages even when working one station in that other listeners can identify the transmitting station and, as it takes fewer characters, it will sometimes get though on a shorter ping. Thus it is suggested that this procedure be generally applied in VK-ZL even when working only one station at a time. An example of this procedure is as follows:

Message Sent	Station Transmitting
CQ VK2AWD	VK2AWD
VK2AWD/27 VK4CDI/37 VK3II	VK3II
VK3II/R26 VK3AXH/38 VK2AWD	VK2AWD
AWD/RRR VK4CDI/26 VK3II	VK3II
II/73 VK3AXH/38 VK2AWD	VK2AWD

WSJT program which means it is not possible to work more than two stations at a time.

Around 18 November, a number of stations were testing the limits of FSK441

at the time of the Leonids meteor shower. While the Leonids did not produce more than a marginal increase in meteor pings, they did encourage activity. There were more burns than normal and the best burn recorded was of 88 seconds duration from VK4EME that was copied in VK1, VK3 and VK7 at the same time. A number of stations attempted OSOs over longer distances to ZL with the following

ZL4LV VK7MO 1862 km QSO ZL3TY VK7MO 1951 km 4 x OSO ZL3TY VK2EAH 2003 km Identifiable

ping ZL3CU VK7MO 2045 km 2 x QSO ZL3TY VK1WJ 2077 km 2 x OSO ZL3TY VK3ZYC 2093 km Identifiable

ZL3TY VK3VHF 2162 km Identifiable

ZL3TY VK3HZ 2272 km Identifiable

ZL1IU VK7MO 2431 km 4 x Identifiable pings in 4 hours ZL3TY VK4EME 2451 km Identifiable

ping when VK4EME working VKIWJ These results show the maximum distance OSO was 2077 km but that a few pings were seen out to as far as 2400 km.

The results support the view that there is a practical limit of just over 2000 km for meteor scatter.

There is strong evidence that meteor scatter can be extended beyond the practical limit of 2000 km by tropoducting, with pings copied last year by Gary VK5ZK and Peter VK5ZLX from Bob ZL3TY at around 2800 km. In order to explore this dual mode of propagation, Nick ZL1IU has been running tests with Rex VK7MO. They report that on both 11 and 26 December, when the Hepburn charts indicated ducting on Nick's side of the Tasman, OSOs were completed with ping rates of up to 60 per hour compared to less than one per hour under normal conditions. Thus it is worth watching for this dual mode of propagation whenever the Hepburn charts indicate the possibility of a tropo extension. While a tropo extension will generally not go over high mountains, the meteor scatter part of the path is well above mountains and would, for example, allow stations west of the Great Dividing Range to work into ZL. Similarly a duct on the VK side of the Tasman will allow ZLs on the other side of the New Zealand Alps to work extended paths into VK.

Please send any Digital DX Modes reports to Rex VK7MO at rmoncur@bigpond.net.au.

The Magic Band – 6 m DX Brian Cleland VK5BC

After some good openings in October, the band continued to improve in November. By December, the sporadic E season was in full swing with openings on most days. Most operators consider the season as one of the best sporadic E in memory with high activity from all call areas. Typical of comments and a summary from a VK6 perspective are those I received in a message from Graham VK6RO: The December 2006 6 m sporadic

E DX season was the best I have ever experienced in the 28 years I have been DXing on 6 m.

I use a quarter wave vertical at about 10 metres high and an old Kenwood TS 680s as my scanning setup. This TS 680s

has been scanning every day for about 20 years. For OSOs, I have a 6 element log periodic.

This past season was outstanding for the

number of openings to indicators or actual OSO openings. The band was open to New Zealand for 1 day in November and 4 days in December, this is outstanding; I do not remember this number of ZL openings before. Please see below some statistics from

my log. I log every indicator as they show up. November 2006 [number of

openings in brackets]

Days open: 6

Beacons heard: VK6RSX [4] VK5VF [1] VK8RAS [1] TV: 46.240 [1] 46.172 [2] 45.250 [1]

57.250 [3] 57.260 [1] Hams worked VK5BC AND VK7AC

December 2006

Number of days open to indicators or

hams: 25 This must be a record for

my shack. New Zealand QSO

Openings occurred the following 4 days, 16th with ZL3AAU

17th with ZL3NW, TY, MF and AAU.

23rd with ZL2AA, DX, ZL3NW, DAC, ZL1CX and ZL3TY

26th with ZL3TY

This number of QSO openings to ZL is virtually unheard of in OF77XX BEACONS: See below the number of

openings to each beacon heard.

VK6RSX (17), VK8RAS (9), VK5RBV (2), VK3RMV (6), VK5VF (7), VK7RAE (2), FK8SIX (1)

Video or audio indicators:

continued on page 53

DX - News & Views

John Bazley VK40Q,

P.O. Box 7665, Toowoomba Mail Centre, QLD 4352.

Email: john.bazley@bigpond.com

New Year Greetings to everyone. Even now, we know that we have plenty of DX to look forward to in 2007! What is still uncertain though, is have we passed the Sunspot Minimum yet? If we have, then the experts will undoubtedly soon be telling us what to expect in the coming months and years. Hopefully, a major improvement in conditions, with the prospect of 10 metres opening up again as a major DX band. 10 metres is quite an exceptional band. When conditions are really good, it is super for DX, with really strong signals, even when they are ORP. and it is relatively easy to erect some form of directional array in even small lots.

I hope that all of you who needed the Lakshadweep Islands (VUI), as I did, succeeded in working them during their operation during December 2006. ARIS have done an excellent job in arranging for these Islands to be reactivated. If you missed the first operation then hopefully you will have managed to work the second operation that took place in the latter part of January 2007 which will have included the use of 30 metres.

What DXpeditions are being planned, apart from the ones that have yet to be announced—January: S.M.O.M. (1A4A). Bangladesh (S2IXA), Lakshadsweep Islands (VUTRG), Niger (SUSU), Djibouti (2026A), Burkino-Faso (XT2C), Zanzibar Island (5H1Z); February: Moucha Island (20M & J2O), Montserrat (VPZM), Aves Island (YW6DX); March: Spratly Islands (9M5DX), April: Agalaga (3B6), Swains Island (N8S); September: St Brandon Islands (3B7C)?

I wonder if we will have any new entities activated in 2007?

entities activated in 2017
The ARRL DXCC Desk has approved the following operations for DXC credit: ZA/IK/TWX (Albania), July 10-30, 2006; 3V6T (Tunisia), July 10-30, 2006; 3V6T (Tunisia), July 2-15, October 22-31 and November 22-30, 2006; 3V7A (Tunisia), May 22-31, 2006; 9G5UR (Ghana), current operation effective September 22, 2006; 9M0/9M2TO (Spraty Islands), June 9-12, 2006; 9Q1NT (Democratic Republic of the Congo), the current operation effective from September 22, 2006; C91TL (Mozambique), June 29-July 13, 2006; FO/F8UFT (Clipperton Island) March 1-31, 2005; OJOIA (Market Rech, March 1-31, 2005; OJOIA (Market Rech,

September 9-15, 2006; ZL9BSJ (Auckland and Campbell Island), September 12, 2006. For more information, visit the DXCC Web page http://www.arrl.org/awards/dxcc/.

The DXCC Award programme also has a "DXCC Frequently Asked Questions" that can answer most of the questions about the DXCC programme and can be found at http://www.arrl.org/awards/dxcc/faq/.

While on the subject of DXCC, we are going to miss Wayne Mills N7NG. who has run the DXCC Programme now for over 6 years and had driven the development of the LOTW programme. I quote from a note issued by Wayne: All in all, it's been a fun six and onehalf years. The League has been a great place to work, and I'd do all but the last 22 months over again, I thank all of you around the World for your great support. In particular, I offer special thanks to our volunteers - advisory committee members, log checkers and advisors, I also urge all of you to support the ARRL financially. Be sure to tell them what you want, though - they don't always ask. I hope to regenerate an active interest in Ham Radio back in Wyoming, Maybe there'll be another DXpedition or two as well, and look for N7NG - Jackson Hole - to be an active Wvoming contributor to LOTW as long as it's in business.

73. Wavne, N7NG The Spratly Island DXpedition in March (9M4SDX) is going to be a big operation with a large group of operators from Japan, including at the time of going to press, JA1OCZ, JE1CKA, JF1PJK, JK1FNL, JR1AIB, JJ2VLY, JQ2GYU and JR7TEO, and from Malaysia - 9M2CF, 9M2KT, 9M2TO, 9M2/JH3GCN and 9M8YY. They will be active from Lavang Layang (AS-051) from the 10th March to the 19th March with four stations on all bands and modes, OSL via 9M2TO, direct or bureau. The web site for the expedition can be found at http://island.geocities. jp/layang9m4sdx/.

The Sovereign Military Order of Malta, 1A0.

Starting from January 2007, a new Amateur Radio Station license (1A4A) has been issued for the SMOM, The Sovereign Military Order of Malta. The licence is held by SMOM, and its management is the responsibility of Giorgio IZ4AKS. The first activity from this station was from the 2nd January 2007 to the 8th January 2007, from the extraterritorial zone of the Magistral Villa on the Aventine Hill in Rome. The operators were IZ4AKS. IZ4DPV, I4UFH, IK4UPB and HV5PUL (IW0DJB). Activity covered all bands from 2 m to 160 m, SSB/CW/RTTY modes. Three stations were active at thesame time. Special attention was made to DX areas, such as Japan, South America and the U.S. West Coast, particularly on the low HF bands of 30, 40, 80 and 160

The licence was granted for a special fundraising programme to support the worldwide relief activities of the Order of Malta. The Order follows its historic Hospitaller mission providing help to the needy and the sick.

1A4A (One Aid 4 Africa) first period

of activity aimed to collect funds to build a school for young girls, as part of a support plan for the rebirth of Southern Sudan, coordinated by the Order of Malta, together with the Italian government. QSL Manager: IZ4DPV Massimo

Cortesi, P.O. BOX 24, 47100 FORLI' CENTRO (FC) – ITALY.

We hear that S9SS is due to retire in February from his job as Manager of the VOA station on Sao Tome. He plans to retire to the Mountains in North Carolina. The QSO's for S9SS are downloaded on LOTW and for those requiring a paper QSI these are available from his Manager N4JR. Over the years he has been very active from Sao Tome.

XT2C operation was scheduled for January 6th to January 20th on all bands. QSLs should be sent direct to F9IE.

5H1Z planned to be active from January 18th to January 29th on 80 to 10 metres running 400watts to vertical antennas, CW and SSB. QSLs to be directed to F6AML.

VU7RG activity was planned from January 15th to January 25th, any further information is available on their website

website.
C6ARI A group of German amateur

radio operators activated the rare Elbow Cay-part of Cay Sal Bank (NA219) from January 3rd to January 9th. Their QSL manager is DL3OCH.

FR/F4ACQ Tibo is running 100 watts into an inverted V dipole. He is expecting to receive his FR5 callsign soon. Tibo will be staying on Reunion Island as a permanent resident. QSL information will be announced soon. His main activity will be on 20 metres SSB.

D2NX - JM1CAX, (ex JY9NX, VK9NX, YJ0NX, 3DA0NX), Koji, is now working in Angola and QRV as

D2NX. He is running an IC-756PRO and IC-PW1. OSL via JH7FOK

6W and J5 African trip by Sid DM2AYO, Mel D1.6CT and Hans D1.7CM, who will be active from Senegal and Guinea Bissau between the 3rd and 2374 March. They will operate CW, SSB, RTTY and FSK as 6WDM2AYO, 6WDJ6.CT and 6WDL7.CM (QSL via home calls, direct or bureau) 160-6 metres, and as 15UAR (QSL via D1.7CM, direct or bureau) 160-f metres, and as 15UAR pruher information on their trip can be found at http://www.qsl.net/d17em/6W/6Whtm

VP8 South Shetlands Sang DT8A reports he "will be now on the air with the call HL8KSJ, the original callsign for the King Sejong station".

Happy DXing.

Special thanks to the authors of *The Daily DX* (W3UR) and 425 Dx News (IIJOJ) for information appearing in this

month's DX News & Views.

For interested readers you can obtain from W3UR a free two week trial from www.dailydx.com.

VHF-UHF _ an expanding world continued

46.172 (25), 57.260 (15), 57.250 (20), 46.240 (14), 45.240 (16), 45.250 (9), 45.260 (9), 50.740 (1) 50.750 (1) [not all recorded, too extiting trying to work ZL's to listen] 48.239.6 (1), 55.250 (1), 55.250.1 (2), 55.260.5

QSO results:

All states were worked except VK6. Usually VK6JQ in Broome is heard, but nothing this season so far.

Best day

The best day overall in my shack was December 23

Cheers from Graham VK6RO/

VK6SIX IN OF77XX."

In VK5, the band was open on most days in December, often from first thing in the morning until late in the evening on many days all states were worked with often very short skip occurring. There were several openings to VK3 and during one of these openings, attains from MI cambrier were SeV into the Adelaide area. Also on several occasions both sides of VK6/ZL contacts could be hearts could be fast.

A welcome addition this season is the Darwin VKSVP beacon on 50,310. It has been heard in most states and it has been great to work several stations including Mark VKSMS, VK8AH, Richie VKSRR and Joe VKSVTX from the Darwin area. Along with the Darwin stations, Jeff VKSGP has been worked regularly from Alice Springs and this season Wayne VKSZAA has been active from Alice. Activity from VK7 has also been

high this season with several active stations from both Northern Tasmania and Hobart.

I received the following information from Jack VK2XQ: 53 MHz Repeaters: Auckland (no callsigns on ZL repeaters) has a great repeater on 53.725 MHz in RF73, it's into Sydney most days; worked Grant ZLIWTT and Michael ZLIABS, not many other ZLIs use it.

Christchurch repeater was in on Saturday (6th January) morning on 53.850 MHz, no one worked, must have all been on 50 MHz! I usually cannot get this repeater as the Sydney WIA repeater is on this frequency. However, it has been off air during the past three days which is a bonus.

Both Adelaide repeaters regular into Sydney, however a lack of operators mean calls go unanswered. Worked Steve VKSAIM and a couple of others in recent days.

Both Tassie repeaters also into Sydney, a few VK7s worked on both.

52,525 MHz Simplex: VK4, VK5, VK7, VK7 and Zl.3 worked during DecLan festive season break. Congestion means it becomes unusable many times: I often get my contacts to drop to \$2,500 or 52,475 MHz to escape the melee on \$25. And ZL3NW in Christcharch worked at 2330Z on \$2,525 MHz \$339 report on \$84 060h Jan.

\$2.05 MHz (old call frequency): Some L2s and ZLI s heard/worked on this one, these ZLs are not allowed on \$0/51 MHz due to Channel 1 TV restrictions and thus are only allowed \$2 MHz and above. These fellows are largely forgotten there, one chap said I was the 1st VK he had worked in 7 years as everyone is on \$5.010 these days. Also worked a VK4 and a VK7 on \$2.050 MHz, the VK7 was a "H" call and said they are not allowed below \$2 MHz.

Interesting Grid Squares worked:

VKZKRR OF34, VK3AS OF13, VK4EK QG36, VKSZPG PF97, VK5GA QF05, VK5AYD PG71, VK6BE OF84, VK6WG OF84, VK6RO OF77, VK8MS PH57, VK8GF PG6, FK8GX TG28, FK8F RG28, ZL2TMB RE79, ZL2DX RE78.

Last week (end Dec), the ZL's came in just after 5.00 am local time (1800z) with James ZL3FV at Hokitika RES7 worked 5X7 at 1815z or 5.15 am local!! 1 am usually up around 430 am. 4lso, yesterday 1 heard VK8RAS beacon at 1945Z or 6.45 am local, very surprising. VK2KRR was also hearing.

Gary VK4ABW north of Townsville reported hearing the V73SIX beacon in the Marshall Islands 579 around noon on New Years Eve and at the same time the KH6 was just audible.

The New Caledonia beacon FK8SIX on 50.080 has been heard regularly in all states but unfortunately there appears to be very few active 6 m operators from FK8 and only a few contacts have been made.

December certainly was a very busy

month on 6 m, with high activity from all states. It also has been very pleasing to work many stations new to 6 m, my log indicates that I worked approximately 60 new callsigns.

Please remember to send any 6 m information to Brian VK5BC at beleland@picknowl.com.au.

ar

Hamads classifieds FREE

WANTED ACT

 Visual, D/F Indicator Type 1 (Stores Ref. 10Q/2) for use with airborne radio receiver Model R-1155.Also, external to fuselage of aircraft. Loop Aerial Type 3 (to obtain D/F bearings). Ref: Manual A.P. 2548A, Vol.1, Chap. 5. Both for use in restoration project. Peter VK1CPK pkloppen@iimetro.com.au, 02 6231 1790.

FOR SALE NSW

 GENERAL RADIO standard signal generator. large alum.case 700 mm x 400 mm x 270mm. Model 805B. Best offer gets it! EDDYSTONE Receiver model 990R 30 to 240 MHz AM/FM \$250 ono. Scotty VK2KE QTHR, gsco8077@bigpond. net.au. 0438 218 897.

WANTED NSW

Wanted AR88.Alan VK2DRR alan4d@tpg.

Boland 02 9635 9953.

· I am looking for a 2 m aerial matcher. Ken

WANTED VIC

 I am trying to restore/complete my AN/TRC24 Radio system and I am looking for the following parts/units: Transmitter, T-302/TRC, Power Supply, PP-685/TRC. Receiver, R-417/TRC. A Band Plug-in AM-1180/GRC, Amplifier/ converter, AM-2537/TRA-25. Amplifier/ Converter, AM-3204/TRC-24. Oscillator/ Multiplier, 0-903A/TRC-24, Transformer, TF-167/TRC. and any other bits and pieces for this radio. Thanks for reading this. Regards, John Eggington,VK3EGG johne@telpacific.com.au. Mobile: 0409 234 672.

FOR SALE OLD · 2 x 100 watt solid state linear amps 3-30

MHz GWO.VK4DV email vk4dv@vahoo.com. au, QTHR, phone no. 07 4928 5537 preferable nights.

WANTED OLD

· New Foundation licence amateur radio enthusiast looking for a suitable weatherproof preloved ATU to mount at base of a MOONRAKER type 29P 05 Marine HF antenna (HF Marine Band 2-30 MHz) for use with allowable Foundation Licence HF bands. Details/Contact to: Eldon [Don] Bryant, email: vk4fnga@wia.org.au or landline at 07 4775 6579 Cheers 73

· Directional aerial for 2 m/70 cm, also 100 W linear for 2 m/70 cm bands.Reply to Brent Doncliff VK4YOH at brentd@bigpond.net.au.

FOR SALE SA

 KENWOOD TS-120S HF Transceiver S/N 009130 with cradle and mounting bracket \$400. YAESU FT-101ZD HF Transceiver S/N 210496 \$400. YAESU FT-227R 2 m S/N 030880 with power supply \$150. YAESU FT-290R 2 m S/n 220378 Bracket and charger \$300. Universal antenna coupler HC-500A \$150. ICOM IC-745 HF Transceiver S/N 06191 \$500. Realistic scanner Pro 2020 \$80. Contact Peter VK5BWH 08 8642 2363 or 08 8642 3424

- · VK5JST Antenna Analyser kits.[see AR article May 2006] Build yourself an extremely useful item for your shack, and improve your HF antenna efficiency. For more details see www.scarc.org.au; contact SCARC PO Box 333 Morphett Vale SA 5162, or email: kits@scarc. org au
- · A give-away: A PRO SAT digital satellite receiver not in working order was given to me but is of no use to me. Satellite communication is not my "cup of tea" so to speak. If anybody would like this unit and can repair it. I would be happy to give this unit away to anybody interested who can restore this receiver. There is no external damage, M.M. Gell QTHR, Phone 08 8294 6906 evenings only.

About hamads.

- Submit by email (preferred) or on the form on the reverse of your current Amateur Radio address flysheet. Please print carefully and clearly, use upper AND lower case.
- Separate forms for For Sale and Wanted Items. Please include name, address STD telephone number and WIA membership number if you do not use the flysheet.
- Deceased estates Hamads will be published in full, even if the ad is not fully radio equipment.
- WIA policy recommends that the serial number of all equipment for sale should be included.
- QTHR means the address is correct in the current WIA Call Book. Ordinary Hamads from those who are deeme
- to be in general electronics retail and wholesale distributive trades should be certified as referring only to private articles not being re-sold for merchandising purposes.
- Commercial advertising on these pages Contact Newsletters Unlimited.
- Copy typed or printed clearly please, and received by the deadlines shown on page 1 of each issue of Amateur Radio.

Email: newunltd@bigpond.net.au

Postal: Newsletters Unlimited, PO Box 431, Monbulk Vic 3793. Fax: 03 9756 7031

TRADE PRACTICES ACT

It is impossible for us to ensure that the advertisements submitted for publication compty with the Trade Practices Act 1974. Therefore, advertisers and advertising agents will appreciate the absolute need for themselves to ensure that the provisions of the Act are strictly complied with.

VICTORIAN CONSUMER AFFAIRS ACT

All advertisers are advised that advertisements containing only a PO Box number as the address cannot be accepted without the addition of the business address of the box-holder or seller of the goods,

WANTED SA

· SMALL HE VHE transceiver for use in a small car plus a suitable antenna for fitting to a Z type mounting bracket. Because of the limited space it would be necessary to "try the radio for size" max Space available approx 9" x 9" Is this at all possible? Phone 08 8294 6906 evenings only.

THE WIA QSL COLLECTION **REQUIRES OSLS**

All types welcome, especially rare DX pictorial cards, special issue. Please contact the Hon Curator, Ken Matchett VK3TL, 4 Sunrise Hill Road, Montrose Vic 3765, tel. (03) 9728 5350

VIDEOEMAIL. Also Live Video Messenger and

Conferencing for Teaching, Talks and Tutorials. Do away with websites.

Brand your Videoemail and watch your business skyrocket. Put video on your eBay ads. FREE 30 day trial Email to: arecibo@bigpond.com

RM Products Italy

are now available in Australia after the annointment of

Hamak Electrical Industries Ptv Ltd as distributor for RM products

Visit the Hamak website at Hamak.com.au for

> Linear amplifiers, Power supplies and accessories

ADVEDTICEDS INDEX

ADVENTIBENS INL	JEV.
AEL	9
ARI	45
Amateur Radio Bookshop	21
Andrews	17
Bushcomm	49
cityonline	10
Com-an-tena	34
G & C	40
Featuretech	16
lcom	ОВС
Jenlex	
Ozgear	23
TTS	22
Small ads	55
KVK	35
Radio exchange	55
TET-Emtron	29
Vertex	IFC, 28
Westlake	23

54

JACKSON BROS IACKSON OF THE HK IS RACK Highest quality products made by UK craftsmen www.iacksonbrothers.com.au

Full range now off-the-shelf in Australia Variable and trimmer canacitors, reduc tion drives, dials, ceramic standoffs CATALOGUES. PRICE LISTS AVAILABLE

CHARLES I COOKSON PTY LTD 11-13 Port Rd Queenstown SA 5014 Tel: (08) 8240 3200 Fax: (08) 8240 3233 FreeFax 1800 673355 within Australia

Email: sales@iacksonbrothers.com.au ALL MAJOR CREDIT CARDS ACCEPTED SOLE AGENTS AUSTRALIA AND NEW ZEALAND

Ideal for touring, caravan, boat and fringe areas. Use

www.amradioantennas.com

pkloops@bigpond.net.au

Paul 0412 302 939

PK's Loop Antennas



Tunable Loop Antenna

enhances AM

Reception

AM radio reception (530 to 1900KHz)

enhanced. Recention where none

existed before: works indoors

High value - low cost

Simple, no connections or batteries

ven in interference-polluted areas

AMIDON FERROMAGNETIC CORES For all RF/electronic applications.

See our website for complete data on all cores www.catchnet.com.au/~rjandusimports

R.J & US Imports

PO Box 431, Kiama NSW 2533. A 3.5" PC disk containing all data is available for \$5.00 incl. post.

Active Electronics, Tas TTS Systems, Tyabb (VIC) Tower Communications, Perth Ozhelo Services, Brisbane MiniKits Adelaide



amateur Check out the courses on

offer from Australia's premier training institution for radio amateurs and hobbyists Already licensed?

A rapin el electronica acuto

Become a radio

Upgrade to the Standard licence using our self paced multi-media CD ROM course. The easiest way to become a

licensed radio experimenter. Discover digital communications, get more nower and more hands

Still want more? Be guided by one of our experienced facilitators

using our proven on-line study methods and get vour Advanced licence.

Visit http://www. radioelectronicschool.com

for more information. or email the course manager

info@radioelectronicschool.net Telephone 07-5573-2795 12-5PM AFOT

Amateur radio - a bridge to careers in radio communications technology

Wanted to Buy **QSL Cards** I am looking in particular for pre-1960 cards but will purchase entire

collections from estates etc. Price dependent on age and quality Please call Mike Goode VK3RDL on

041 222 1649

mikegood@netspace.net.au with details of what you have

vk3aii radii

WWW.VK3AJJ.COM

Radio Exchange

The Radio Exchange webpage

WWW.VK3AJJ.COM

is a portal for the sale / exchange of new and used radio gear in Australasia.

 Sell your owned used gear online using the free Radio Exchange User Classifieds (why pay unnecessary Ebay seller fees)

Browse the Radio Exchange Online store for over 500 radio related products including Icom, Yaesu. Kenwood, SGC, LDG, Flex Radio, Cubex, MFJ and many more (all at unbeatable prices) Subscribe to the regular Radio Exchange newsletter and receive a fortnightly email advising of close-out

items, new product releases and other radio related information.

Trade-in your unwanted radio items to Radio Exchange

 Research your next radio purchase using the online brochures page at Radio Exchange (over 100 radio related brochures available for download)

· Radio Exchange welcomes purchase enquiries via email, telephone or fax. We are the mail order specialists and dispatch same day as receipt of funds into either our OZ or NZ based bank accounts. Laybuy purchases are of course most welcome.

Supporting the hobby of Amateur Radio is the primary objective of Radio Exchange

PO BOX 1200. DARLING, VIC. 3145 E: VK3AJJ@IINET.NET.AU 03-9505-6590

(61-3-95056590) M: 0410 093 759

03-8640-0419

Contact Paul (vk3ajj) WWW.VK3AJJ.COM

RADIO EXCHANGE

TRADING HOURS

EMAIL: 24 HOURS - 7 DAYS PER WEEK

TEI . 9.30AM EST - 9.30PM EST 7 DAYS FAY.

24 HOURS - 7 DAYS PER WEEK



National Office 10/229 Balaclava Road.

PO Box 2175

Australia

Caulfield North VIC 3161

Caulfield Junction Vic 3161

Directory

Contact

Phone 03 9528 5962.

10 am to 4 pm daily

http://www.wia.org.au

nationaloffice@wia.org.au

Fax 03 9523 8191

The Amateur Service:

a radio communications service for the purpose of self training, intercommunication and technical investigation carried out by amateurs, that is, by duly authorised persons interested in radio technique with a personal aim and without any pecuniary interest. 1.56 ITU Radio Regulations.

News prompts.

News Bulletin Schedule

Contact nationalnews@wia.org.au

Subject to change, See www.wia.org.au follow National

National VK1WIA news is distributed to all states.

The Wireless Institute of Australia represents the interests of all amateurs throughout Australia.

The WIA offers one year and 5 year membership for all categories except Concession Student. The fees for each category are: Overseas members \$85 (\$403), Full members \$75 (\$365), Concession members (pensioner) \$70 (\$332) Concession members (student) \$70. Full members no magazine \$50 (\$237). Family members \$40 (\$190)

Advisory Committees	Contact	News Bulletin Schedule
VK1 Australian Capital Territory VK1WX Alan Hawes VK1ZPL Phil Longworth VK1ET John Woolner VK1GT John Woolner VK1GH Gil Hughes	vk1advisory@wia.org.au	Sundays at 11.00 am VK1YHA 7.129, 146,950,438.050 Carberra Region Amateur Radio Club Email newsletter will be sent on request to president@vk1.ampr.org
VK2 New South Wales VK2QV Chris Flak VK2XCD Chris Devery VK2BFN Adrian Clout	Phone 02 9689 2417 vk2wi@ozemail.com.au vk2advisory@wia.org.au	VK2WI - Sunday 1000 and 1930 hours local.1.845; 3.595; 7.146; 10.125; 14.170; 28.320, 52.525; 145.600; 147.000; 438.525; 1273.500 negahettz. Pius regional relays. VK1WIA news included in the morning
VK3 Victoria VK3JJB John Brown VK3PC Jim Linton VK3APO Peter Mill	Phone 03 9885 9261 arv@amateurradio.com.au	VK1WIA, Sunday 11am and 8pm, 3.615 and 7.085 (LSB) 10.130 (USB), VK3RML 146.700, VK3RMM 147.250, VK3RMU 438.075.
VK4 Queensland VK4RY Don Wilchefski	vk4advisory@wia.org.au	VK1WIA, Sunday 9.0am via HF and major VHF/UHF rptrs

VK5 South Australia and Northern Territory

VK5OV David Box VK5APR Peter Reichelt VK5ATQ Trevor Quick

VK4ZZ Gavin Reibelt VK4KF Ken Fuller

boxesdnm@lm.net.au peter.reichelt@bigpond.com vk5advisorv@wia.org.au

Phone 08 8294 2992 VK5 South Australia

VK5WI: 0900 am local time. 1.843 LSB, 3.550 LSB, 7.140 LSB. 28.470 USB. 53.1 AM. 147.000 FM Adelaide, 146.900 FM South East, 146,925 FM Central North, 439,975 FM Adelaide North VK8 Northern Territory

0900 local time 3.555 LSB, 7.050 LSB, 10.130 USB, 146.900

VK6 Western Australia VK6NE Neil Penfold VK6XV Roy Watkins

VK6OO Bruce Hedland-Thomas

Phone 08 9351 8873 http://www.vk6.net/

vk6advisory@wia.org.au vk6ne@upnaway.com vk6xv@bigpond.net.au

VK6WIA: 146.700 FM(R) Perth at 0930hrs Sunday relayed on 1.865, 3.564, 7.075, 10.125, 14.116, 14.175, 21.185, 29.120 FM, 50.150 and 438.525 MHz, Country relays 3.582. 147,200 (R) Cataby, 147,350 (R) Busselton, 146,900 (R) Mt William (Bunbury),147,000 (R) Katanning and 147,250 (R) Mt Saddleback. Broadcast repeated on 146,700 at 1900 hrs Sunday relayed on 1.865, 3.564 and 438.525 MHz : country

relays on 146.900,147.000, 147.200, 147.250 and 147.350

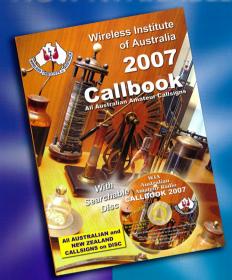
MHz. Also in "Realaudio" format from the VK6 WIA website **VK7 Tasmania** Phone 03 6234 3553 vk7advisory@wia.org.au phil.corby@tassie.net.au VK7ZAX Phil Corby VK7DG Dale Barnes VK7KK Reg Emmett vk7dg@wia.org.au regemm@ozemail.com.au

VK1WIA Sunday 9am on VK7WI network: 3.570MHz LSB, 146.700 MHz FM (VK7RHT South), 53.825MHZ FM (VK7RAD South), 147.000MHz FM (VK7RAA North), 146.750 FM & 53.825MHz (VK7RNW North West), 146.625 MHz FM (VK7RMD North West), UHF CB Channel 15 (Hobart) and 27MHz CB - 27.225MHz LSB (Hobart). Followed at 9:30am with VK7 Regional News Broadcast also on 7.090MHz LSB & 14.130MHz USB

1. Only three members of the state advisory committees are listed.

2. All listings are preliminary. They will be updated each month as required. 3. Membership application forms are available from the WIA web site www.wia.org.au or the national office address above.

NOW AVAILABLE



Contact WIA National Office on 03 9528 5962 or download an order form from the website \$25 mailed to members \$33 mailed to so members \$33 mailed to so members \$33 mailed to so

www.wia.org.au

Visit us at Wyong and Win with Icom

ENTER TO WIN ONE OF 3 CASH REBATES UP TO THE VALUE OF \$300 OFF YOUR ICOM TRANSCEIVER PURCHASE

Wyong Field Day





 100W HF/50MHz, 50W/2m, 35W/70cm • IF DSP for superior noise rejection • User selectable digital filters for enhanced selectivity • 2.5° TFT colour display for bright easy reading • Remote control Mic for simple mobile control • Digital voice storage • 2 mode band scope • Multi-function meter including VSWR display • Bullit in RTY modulator

IC-T90A 5W Triband handheld

VHF/UHF FM 6m, 2m, & 70cm Wideband receive 495kHz - 1GHz
 555 alphanumeric memories
 DTMF keyboard for echo/IRLP operation
 Tone encode and decode

Door Prize - Win the NEW IC-41S Icom's latest UHF CB Transceiver



NOOM 171